
APPENDIX A



1112 I St #100
Sacramento, CA 95814

300 Richards Boulevard, Third Floor
Sacramento, CA 95811

DATE: **March 4, 2022**

TO: Interested Persons

FROM: Cheryle Hodge, Principal Planner/New Growth Manager
Community Development Department

Jose C. Henriquez, Executive Officer
Sacramento Local Agency Formation Commission

RE: **NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT REPORT
AND SCOPING MEETING FOR THE AIRPORT SOUTH INDUSTRIAL
PROJECT (P21-017)**

COMMENT PERIOD: **March 4, 2022 through April 4, 2022**

SCOPING MEETING

March 16, 2022; 6:00 p.m.

By Computer: To join the meeting by computer, please register:

Zoom Meeting Registration Link:

https://us02web.zoom.us/webinar/register/WN_85ogrpKdR5Kdrj25j9Ax1A

The presentation will be recorded and available to view after **March 16, 2022**.

Trustee and responsible agencies and members of the public are invited to attend and provide input on the scope of the EIR. Due to the COVID-19 pandemic, the scoping meeting will be conducted in a virtual format. Written comments regarding relevant issues may be submitted during the meeting.

INTRODUCTION

The City of Sacramento and the Sacramento Local Agency Formation Commission (LAFCo) are the Co-Lead agencies for the preparation of an Environmental Impact Report (EIR) for the proposed Airport South Industrial Project (proposed project) and issue this

notice in accordance section 15082 of the California Environmental Quality Act (CEQA) Guidelines.

The EIR is being prepared in compliance with CEQA. The City and LAFCo, as Co-Lead agencies, are issuing this Notice of Preparation (NOP) to inform trustee and responsible agencies, as well as the public, of their separate and discretionary decision to prepare an EIR. The purpose of the NOP is to provide information describing the project and its potential environmental effects to those who may wish to comment regarding the scope and content of the information to be included in the EIR. Agencies should comment on such information as it relates to their statutory responsibilities in connection with the project.

The EIR will provide an evaluation of potential environmental impacts associated with development of the project. The proposed project location, description, and environmental issue areas that may be affected by development of the proposed project are described below. The EIR will evaluate potentially significant environmental impacts of the proposed project, on a direct, indirect, and cumulative basis; identify mitigation measures that may be feasible to lessen or avoid such impacts; identify alternatives that may lessen one or more potentially significant impacts associated with the proposed project; growth-inducing effects of the project; and irreversible significant effects.

PROJECT LOCATION AND DESCRIPTION

The proposed project would be located southeast of the intersection of Powerline Road and Interstate 5 (I-5) in Sacramento County, California (see Figure 1 and Figure 2). The approximately 450-acre project site is undeveloped and consists entirely of agricultural land.

The project site is located south of Metro Air Parkway (and the new Metro Air Parkway/I-5 interchange), southwest of the City of Sacramento Greenbriar (now known as Northlake) development currently under construction and west of the existing Westlake adjacent to the current City of Sacramento boundary.

Portions of Bayou Way and Metro Air Parkway are located within the project site. Bayou Way is generally laid out in an east-to-west direction. Metro Parkway connects to Bayou Way and features a north-to-south direction. Surrounding existing uses include the Life Storage Facility and Westlake subdivision to the east; the West Drainage Canal, undeveloped agricultural land, and the Paso Verde School to the south; currently undeveloped Sacramento International Airport (SMF) Master Plan Commercial Development to the west; the Sacramento International Airport to the northwest, across from I-5; the Metro Air Park and the Amazon SMF-1 Fulfillment Center to the north, across from I-5; and the currently under-construction Northlake subdivision to the northeast, across from I-5.

Prior to the commencement of construction, the proposed project would require discretionary approval by the Sacramento LAFCo of a Sphere of Influence Amendment (SOIA) and a subsequent discretionary approval of the project site's annexation into the City limits, before any construction could occur. The project site is currently situated

adjacent to, but outside of, the City's SOI. Approval of a SOIA would modify the City's SOI to expand to include the boundaries of the project site, which would allow for the project site to then be annexed into the City limits as a subsequent and separate action. In accordance with the Cortese-Knox-Hertzberg Local Government Reorganization Act (see Government Code Section 56375), Rezoning would be applied to the annexation area prior to LAFCo's consideration of the annexation.

If the annexation is approved, the proposed project would include development of an industrial park, that would allow for construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres. Each industrial building would include associated parking areas to accommodate vehicles and/or trailers, as well as bio-detention areas to capture stormwater runoff from the newly constructed impervious surfaces.

The proposed project would require approval of the following entitlements: Sacramento County LAFCo approval of a SOIA (including a related Municipal Services Review) and Reorganization (annexation and related detachments); and City of Sacramento approval of a Prezone, General Plan Amendment (GPA), Tentative Master Parcel Map, Development Agreement (DA) and Planned Unit Development (PUD).

ENVIRONMENTAL EFFECTS AND SCOPE OF THE EIR

The EIR will evaluate the potential environmental impacts of the proposed project and recommend mitigation measures, as required. The EIR will provide a project-specific evaluation of the environmental effects of the proposed project, pursuant to Section 15161 of the CEQA Guidelines.

The City and LAFCo anticipate that the following technical areas will be addressed in the EIR to determine whether the project would result in any significant environmental effects:

- Aesthetics;
- Agricultural Resources;
- Air Quality and Greenhouse Gas Emissions (Including Energy);
- Biological Resources;
- Cultural Resources;
- Geology and Soils;
- Hazards and Hazardous Materials;
- Hydrology and Water Quality;
- Land Use, Open Space, and Planning & Population and Housing;
- Noise;
- Public Services & Utilities and Service Systems;
- Transportation; and
- Tribal Cultural Resources.

The EIR will identify and evaluate alternatives to the proposed project. CEQA requires that an EIR evaluate a “No Project” alternative, as well as a reasonable range of other project alternatives. Comments on potential alternatives for discussion in the EIR are welcomed.

Due to concerns over COVID-19, the City of Sacramento Community Development Department’s Public Counter, located at 300 Richards Boulevard, 3rd Floor, Sacramento, CA 95811, is closed until further notice. Environmental documents related to the project may be reviewed through the City’s website at:

<http://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports>

The Sacramento LAFCo office, located at 1112 I Street is open to the public; however, people are strongly encouraged to make an appointment beforehand. Materials related to this project and NOP can be viewed through the Sacramento LAFCo’s website at:

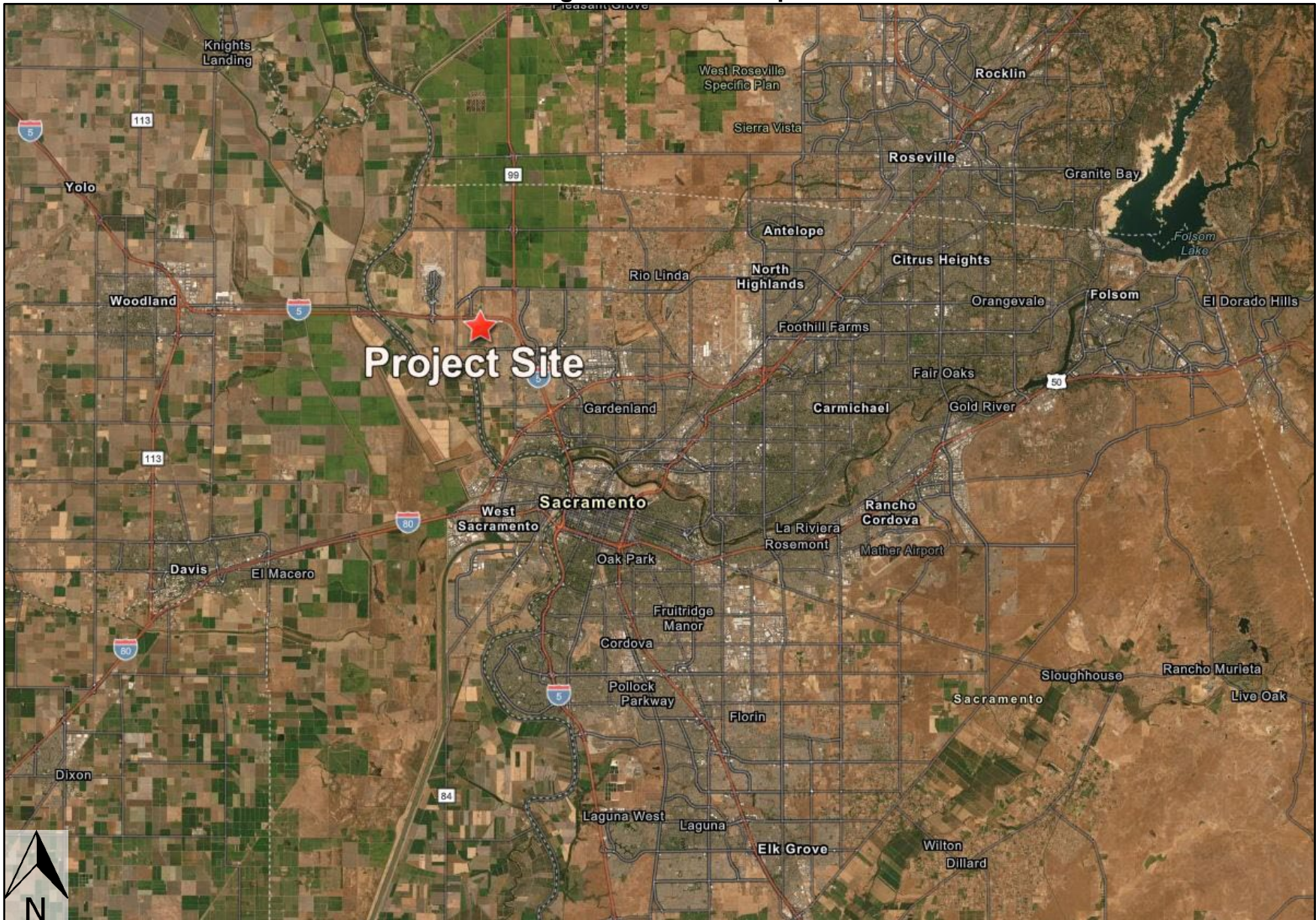
www.saclafco.org

SUBMITTING COMMENTS

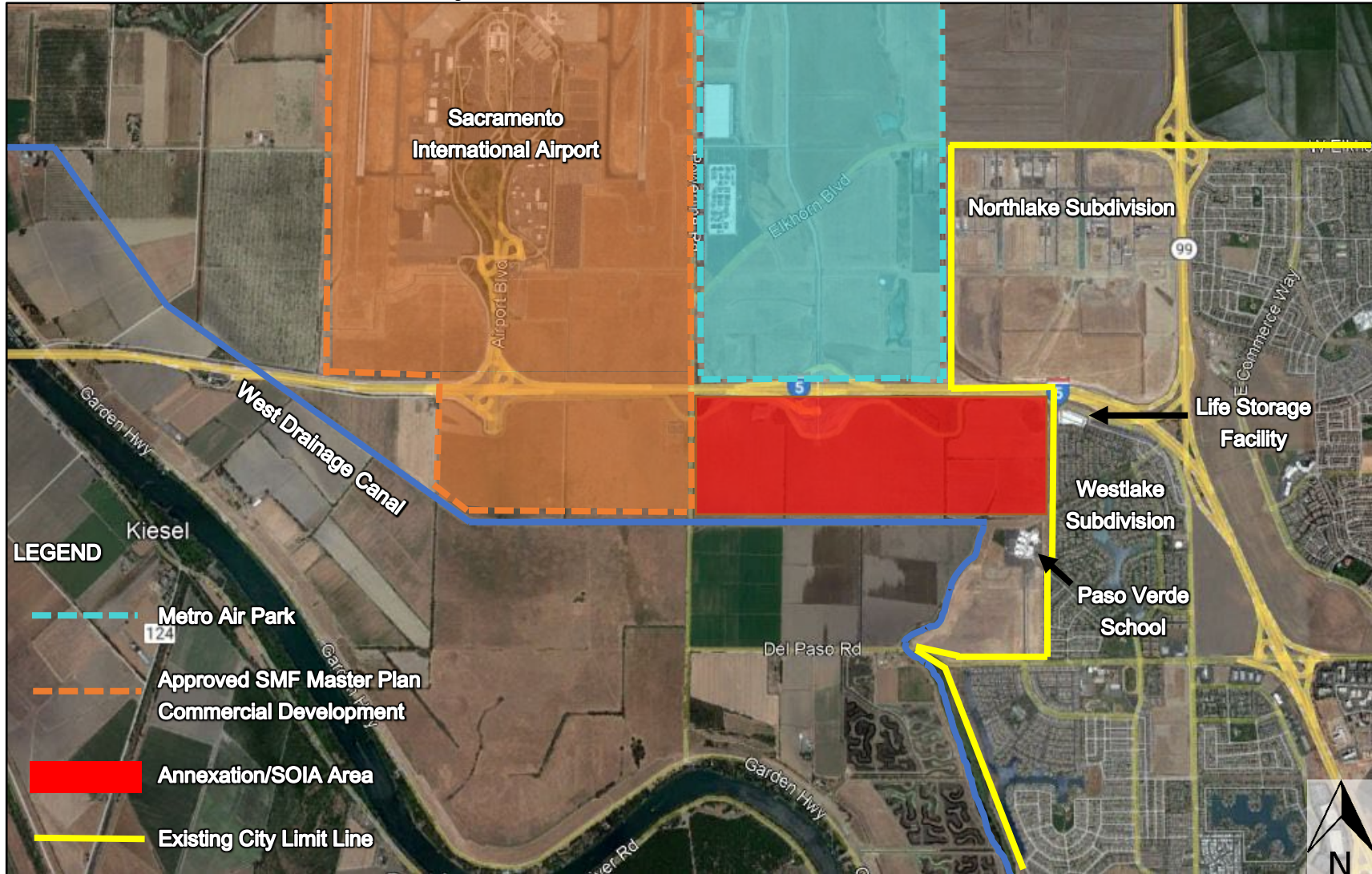
Comments and suggestions regarding the scope of analysis of the EIR are invited from all interested parties. All comments will be received by the City of Sacramento. Written comments or questions concerning the EIR for the proposed project should be directed to the environmental project manager at the following address by **5:00 p.m. on April 4, 2022**. Please include the contact person’s full name and address in order for staff to respond appropriately:

Scott Johnson, Senior Planner
City of Sacramento Community Development Department
300 Richards Blvd., Third Floor
Sacramento, CA 95811
Telephone: (916) 808-5842
E-mail: ***srjohnson@cityofsacramento.org***

**Figure 1
Regional Location Map**



**Figure 2
Project Site Boundaries and Annexation Area**



Note: Project Site boundaries are approximate.

APPENDIX B



NATIVE AMERICAN HERITAGE COMMISSION

March 7, 2022

Scott Johnson
City of Sacramento Community Development Department
300 Richards Blvd, 3rd Floor
Sacramento, CA 95811

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki,
Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

Re: 2022030181, Airport South Industrial Park Project, Sacramento County

Dear Mr. Johnson:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines § 15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines § 15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

- 1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:** Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

 - a. A brief description of the project.
 - b. The lead agency contact information.
 - c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
- 2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report:** A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

 - a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
- 3. Mandatory Topics of Consultation if Requested by a Tribe:** The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
- 4. Discretionary Topics of Consultation:** The following topics are discretionary topics of consultation:

 - a. Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
- 5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process:** With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
- 6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:** If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. Conclusion of Consultation:** Consultation with a tribe shall be considered concluded when either of the following occurs:
- a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document:** Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation:** If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- 10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**
- a.** Avoidance and preservation of the resources in place, including, but not limited to:
 - i.** Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i.** Protecting the cultural character and integrity of the resource.
 - ii.** Protecting the traditional use of the resource.
 - iii.** Protecting the confidentiality of the resource.
 - c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d.** Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e.** Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource:** An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
- a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
 - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, § 15064.5(f) (CEQA Guidelines § 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, § 15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

cc: State Clearinghouse



March 7, 2022

Scott Johnson
City of Sacramento
300 Richards Blvd
Sacramento, CA 95811

Ref: Gas and Electric Transmission and Distribution

Dear Scott Johnson,

Thank you for submitting the P21-017 plans for our review. PG&E will review the submitted plans in relationship to any existing Gas and Electric facilities within the project area. If the proposed project is adjacent/or within PG&E owned property and/or easements, we will be working with you to ensure compatible uses and activities near our facilities.

Attached you will find information and requirements as it relates to Gas facilities (Attachment 1) and Electric facilities (Attachment 2). Please review these in detail, as it is critical to ensure your safety and to protect PG&E's facilities and its existing rights.

Below is additional information for your review:

1. This plan review process does not replace the application process for PG&E gas or electric service your project may require. For these requests, please continue to work with PG&E Service Planning: https://www.pge.com/en_US/business/services/building-and-renovation/overview/overview.page.
2. If the project being submitted is part of a larger project, please include the entire scope of your project, and not just a portion of it. PG&E's facilities are to be incorporated within any CEQA document. PG&E needs to verify that the CEQA document will identify any required future PG&E services.
3. An engineering deposit may be required to review plans for a project depending on the size, scope, and location of the project and as it relates to any rearrangement or new installation of PG&E facilities.

Any proposed uses within the PG&E fee strip and/or easement, may include a California Public Utility Commission (CPUC) Section 851 filing. This requires the CPUC to render approval for a conveyance of rights for specific uses on PG&E's fee strip or easement. PG&E will advise if the necessity to incorporate a CPUC Section 851 filing is required.

This letter does not constitute PG&E's consent to use any portion of its easement for any purpose not previously conveyed. PG&E will provide a project specific response as required.

Sincerely,

Plan Review Team
Land Management



Attachment 1 – Gas Facilities

There could be gas transmission pipelines in this area which would be considered critical facilities for PG&E and a high priority subsurface installation under California law. Care must be taken to ensure safety and accessibility. So, please ensure that if PG&E approves work near gas transmission pipelines it is done in adherence with the below stipulations. Additionally, the following link provides additional information regarding legal requirements under California excavation laws: <https://www.usanorth811.org/images/pdfs/CA-LAW-2018.pdf>

1. **Standby Inspection:** A PG&E Gas Transmission Standby Inspector must be present during any demolition or construction activity that comes within 10 feet of the gas pipeline. This includes all grading, trenching, substructure depth verifications (potholes), asphalt or concrete demolition/removal, removal of trees, signs, light poles, etc. This inspection can be coordinated through the Underground Service Alert (USA) service at 811. A minimum notice of 48 hours is required. Ensure the USA markings and notifications are maintained throughout the duration of your work.
2. **Access:** At any time, PG&E may need to access, excavate, and perform work on the gas pipeline. Any construction equipment, materials, or spoils may need to be removed upon notice. Any temporary construction fencing installed within PG&E's easement would also need to be capable of being removed at any time upon notice. Any plans to cut temporary slopes exceeding a 1:4 grade within 10 feet of a gas transmission pipeline need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.
3. **Wheel Loads:** To prevent damage to the buried gas pipeline, there are weight limits that must be enforced whenever any equipment gets within 10 feet of traversing the pipe.

Ensure a list of the axle weights of all equipment being used is available for PG&E's Standby Inspector. To confirm the depth of cover, the pipeline may need to be potholed by hand in a few areas.

Due to the complex variability of tracked equipment, vibratory compaction equipment, and cranes, PG&E must evaluate those items on a case-by-case basis prior to use over the gas pipeline (provide a list of any proposed equipment of this type noting model numbers and specific attachments).

No equipment may be set up over the gas pipeline while operating. Ensure crane outriggers are at least 10 feet from the centerline of the gas pipeline. Transport trucks must not be parked over the gas pipeline while being loaded or unloaded.

4. **Grading:** PG&E requires a minimum of 36 inches of cover over gas pipelines (or existing grade if less) and a maximum of 7 feet of cover at all locations. The graded surface cannot exceed a cross slope of 1:4.
5. **Excavating:** Any digging within 2 feet of a gas pipeline must be dug by hand. Note that while the minimum clearance is only 12 inches, any excavation work within 24 inches of the edge of a pipeline must be done with hand tools. So to avoid having to dig a trench entirely with hand tools, the edge of the trench must be over 24 inches away. (Doing the math for a 24 inch



wide trench being dug along a 36 inch pipeline, the centerline of the trench would need to be at least 54 inches [$24/2 + 24 + 36/2 = 54$] away, or be entirely dug by hand.)

Water jetting to assist vacuum excavating must be limited to 1000 psig and directed at a 40° angle to the pipe. All pile driving must be kept a minimum of 3 feet away.

Any plans to expose and support a PG&E gas transmission pipeline across an open excavation need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.

6. Boring/Trenchless Installations: PG&E Pipeline Services must review and approve all plans to bore across or parallel to (within 10 feet) a gas transmission pipeline. There are stringent criteria to pothole the gas transmission facility at regular intervals for all parallel bore installations.

For bore paths that cross gas transmission pipelines perpendicularly, the pipeline must be potholed a minimum of 2 feet in the horizontal direction of the bore path and a minimum of 12 inches in the vertical direction from the bottom of the pipe with minimum clearances measured from the edge of the pipe in both directions. Standby personnel must watch the locator trace (and every ream pass) the path of the bore as it approaches the pipeline and visually monitor the pothole (with the exposed transmission pipe) as the bore traverses the pipeline to ensure adequate clearance with the pipeline. The pothole width must account for the inaccuracy of the locating equipment.

7. Substructures: All utility crossings of a gas pipeline should be made as close to perpendicular as feasible ($90^\circ \pm 15^\circ$). All utility lines crossing the gas pipeline must have a minimum of 12 inches of separation from the gas pipeline. Parallel utilities, pole bases, water line 'kicker blocks', storm drain inlets, water meters, valves, back pressure devices or other utility substructures are not allowed in the PG&E gas pipeline easement.

If previously retired PG&E facilities are in conflict with proposed substructures, PG&E must verify they are safe prior to removal. This includes verification testing of the contents of the facilities, as well as environmental testing of the coating and internal surfaces. Timelines for PG&E completion of this verification will vary depending on the type and location of facilities in conflict.

8. Structures: No structures are to be built within the PG&E gas pipeline easement. This includes buildings, retaining walls, fences, decks, patios, carports, septic tanks, storage sheds, tanks, loading ramps, or any structure that could limit PG&E's ability to access its facilities.

9. Fencing: Permanent fencing is not allowed within PG&E easements except for perpendicular crossings which must include a 16 foot wide gate for vehicular access. Gates will be secured with PG&E corporation locks.

10. Landscaping: Landscaping must be designed to allow PG&E to access the pipeline for maintenance and not interfere with pipeline coatings or other cathodic protection systems. No trees, shrubs, brush, vines, and other vegetation may be planted within the easement area. Only those plants, ground covers, grasses, flowers, and low-growing plants that grow unsupported to a maximum of four feet (4') in height at maturity may be planted within the easement area.



11. Cathodic Protection: PG&E pipelines are protected from corrosion with an “Impressed Current” cathodic protection system. Any proposed facilities, such as metal conduit, pipes, service lines, ground rods, anodes, wires, etc. that might affect the pipeline cathodic protection system must be reviewed and approved by PG&E Corrosion Engineering.

12. Pipeline Marker Signs: PG&E needs to maintain pipeline marker signs for gas transmission pipelines in order to ensure public awareness of the presence of the pipelines. With prior written approval from PG&E Pipeline Services, an existing PG&E pipeline marker sign that is in direct conflict with proposed developments may be temporarily relocated to accommodate construction work. The pipeline marker must be moved back once construction is complete.

13. PG&E is also the provider of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E’s facilities must be reviewed and approved by PG&E to ensure that no impact occurs which may endanger the safe operation of its facilities.



Attachment 2 – Electric Facilities

It is PG&E's policy to permit certain uses on a case by case basis within its electric transmission fee strip(s) and/or easement(s) provided such uses and manner in which they are exercised, will not interfere with PG&E's rights or endanger its facilities. Some examples/restrictions are as follows:

1. Buildings and Other Structures: No buildings or other structures including the foot print and eave of any buildings, swimming pools, wells or similar structures will be permitted within fee strip(s) and/or easement(s) areas. PG&E's transmission easement shall be designated on subdivision/parcel maps as **"RESTRICTED USE AREA – NO BUILDING."**
2. Grading: Cuts, trenches or excavations may not be made within 25 feet of our towers. Developers must submit grading plans and site development plans (including geotechnical reports if applicable), signed and dated, for PG&E's review. PG&E engineers must review grade changes in the vicinity of our towers. No fills will be allowed which would impair ground-to-conductor clearances. Towers shall not be left on mounds without adequate road access to base of tower or structure.
3. Fences: Walls, fences, and other structures must be installed at locations that do not affect the safe operation of PG&E's facilities. Heavy equipment access to our facilities must be maintained at all times. Metal fences are to be grounded to PG&E specifications. No wall, fence or other like structure is to be installed within 10 feet of tower footings and unrestricted access must be maintained from a tower structure to the nearest street. Walls, fences and other structures proposed along or within the fee strip(s) and/or easement(s) will require PG&E review; submit plans to PG&E Centralized Review Team for review and comment.
4. Landscaping: Vegetation may be allowed; subject to review of plans. On overhead electric transmission fee strip(s) and/or easement(s), trees and shrubs are limited to those varieties that do not exceed 10 feet in height at maturity. PG&E must have access to its facilities at all times, including access by heavy equipment. No planting is to occur within the footprint of the tower legs. Greenbelts are encouraged.
5. Reservoirs, Sumps, Drainage Basins, and Ponds: Prohibited within PG&E's fee strip(s) and/or easement(s) for electric transmission lines.
6. Automobile Parking: Short term parking of movable passenger vehicles and light trucks (pickups, vans, etc.) is allowed. The lighting within these parking areas will need to be reviewed by PG&E; approval will be on a case by case basis. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications. Blocked-up vehicles are not allowed. Carports, canopies, or awnings are not allowed.
7. Storage of Flammable, Explosive or Corrosive Materials: There shall be no storage of fuel or combustibles and no fueling of vehicles within PG&E's easement. No trash bins or incinerators are allowed.



8. Streets and Roads: Access to facilities must be maintained at all times. Street lights may be allowed in the fee strip(s) and/or easement(s) but in all cases must be reviewed by PG&E for proper clearance. Roads and utilities should cross the transmission easement as nearly at right angles as possible. Road intersections will not be allowed within the transmission easement.

9. Pipelines: Pipelines may be allowed provided crossings are held to a minimum and to be as nearly perpendicular as possible. Pipelines within 25 feet of PG&E structures require review by PG&E. Sprinklers systems may be allowed; subject to review. Leach fields and septic tanks are not allowed. Construction plans must be submitted to PG&E for review and approval prior to the commencement of any construction.

10. Signs: Signs are not allowed except in rare cases subject to individual review by PG&E.

11. Recreation Areas: Playgrounds, parks, tennis courts, basketball courts, barbecue and light trucks (pickups, vans, etc.) may be allowed; subject to review of plans. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications.

12. Construction Activity: Since construction activity will take place near PG&E's overhead electric lines, please be advised it is the contractor's responsibility to be aware of, and observe the minimum clearances for both workers and equipment operating near high voltage electric lines set out in the High-Voltage Electrical Safety Orders of the California Division of Industrial Safety (<https://www.dir.ca.gov/Title8/sb5g2.html>), as well as any other safety regulations. Contractors shall comply with California Public Utilities Commission General Order 95 (http://www.cpuc.ca.gov/gos/GO95/go_95_startup_page.html) and all other safety rules. No construction may occur within 25 feet of PG&E's towers. All excavation activities may only commence after 811 protocols has been followed.

Contractor shall ensure the protection of PG&E's towers and poles from vehicular damage by (installing protective barriers) Plans for protection barriers must be approved by PG&E prior to construction.

13. PG&E is also the owner of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs that may endanger the safe and reliable operation of its facilities.



March 28, 2022

Mr. Scott Johnson
City of Sacramento – Community Development Department
300 Richards Boulevard, 3rd Floor
Sacramento, CA 95811

Subject: City of Sacramento Notice of Preparation of an Environmental Impact Report for the Airport South Industrial Project (P21-017)

Dear Mr. Johnson,

The Sacramento Regional County Sanitation District (Regional San) and the Sacramento Area Sewer District (SASD) have the following comments regarding the Notice of Preparation of an Environmental Impact Report for the City of Sacramento (City) Airport South Industrial Annexation project (Project).

The Project site is located south of Metro Air Parkway and the new Metro Air Parkway/I-5 interchange, southwest of the Greenbriar development (now known as Northlake) and west of the existing Westlake development, adjacent to the current City boundary. The proposed Project consists of development of an industrial park that would allow for construction of up to 6,600,000-sq.ft. of industrial uses across approximately 408-acres, as well as approximately 100,000-sq.ft of retail/commercial uses, including approximately 61,000-sq.ft. of hotel/hospitality and associated parking lots on approximately 11-acres.

The Project is located outside of the Regional San and SASD service areas. As such, Regional San and SASD have not planned, designed, or constructed facilities to provide service to this area. To receive sewer service, the Project area must annex into both Regional San and SASD service areas. The Project applicant should work closely with the Sacramento Local Agency Formation Commission (<https://saclafoo.saccounty.net>) to begin the annexation process.

Upon annexation, SASD will provide local sewer service for the Project area. Regional San provides conveyance from local trunk sewers to the Sacramento Regional Wastewater Treatment Plant (SRWTP) through large-diameter pipelines called interceptors.

In February 2013, the Regional San Board of Directors adopted the Interceptor Sequencing Study (ISS). The ISS updated the Regional San Master Plan 2000. The ISS is located on the Regional San website at www.regionalsan.com/ISS.

Main Office

10060 Goethe Road
Sacramento, CA 95827-3553
Tel: 916.876.6000
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Treatment Plant

8521 Laguna Station Road
Elk Grove, CA 95758-9550
Tel: 916.875.9000
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Nicole Coleman

Public Affairs Manager

www.regionalsan.com

Mr. Scott Johnson
Airport South Industrial Project (P21-017)
March 28, 2022
Page 2

In March 2021, the SASD Board of Directors approved the most current SASD planning document, the 2020 System Capacity Plan Update (SCP). The SCP is located on the SASD website at www.sacsewer.com/devres-standards.html.

Regional San and SASD are not land-use authorities. Regional San and SASD plans and designs its sewer systems using information from land use authorities. Regional San and SASD base the projects identified within its planning documents on growth projections provided by these land-use authorities.

The project proponent must complete a Sewer Master Plan that includes connection points and phasing information to assess the capacity of the existing sewer system to accommodate the additional flows generated by this project. Onsite and offsite environmental impacts associated with extending sewer services to this development should be contemplated within the Environmental Impact Report for the proposed project.

Customers receiving service from Regional San and SASD are responsible for rates and fees outlined within the latest Regional San and SASD ordinances. Fees for connecting to the sewer system recover the capital investment of sewer and treatment facilities that serves new customers. The SASD ordinance is located on the SASD website at www.sacsewer.com/ordinances.html and the Regional San ordinance is located on the Regional San website at www.regionalsan.com/ordinance.

If you have any questions regarding this letter, please feel free to contact me at (916) 876-6104 or by email: armstrongro@sacsewer.com.

Sincerely,

Robb Armstrong

Robb Armstrong
Regional San Development Services & Plan Check

cc: SASD Development Services

From: [Armstrong, Robert](#)
To: [Henriquez, Jose](#); [Scott Johnson](#)
Cc: [Cheryle Hodge](#); [Yadira Lewis](#); [Ocenosak, David](#); [Ramirez, Jose](#); [Miele, Dillon](#)
Subject: RE: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR
Date: Wednesday, March 30, 2022 7:46:59 AM

Hi José,

I don't believe you misread or misinterpreted the wording. The intent of the statement is to make clear to the applicant that Regional San and SASD have not planned for providing service to areas located outside of our existing service boundaries. As with the Upper Westside project and the subject Airport Industrial project, the applicants for those entitlements completed high level sewer master plans to verify that the existing sewer system could accommodate their projected flows. In the case with both of these projects, the first submitted master plans were modeled and it was determined that their proposed connection points to the existing system would not be able to accommodate their project flows due to constraints within the existing system. Subsequent submittals delineating new alignments, connection points, revised modeling data, etc. determined that their project flows could be accommodated.

These master plans dictate the required infrastructure needed for providing service to the project area, it's never as simple as just constructing a sewer pipeline and connecting it to the existing system. Depending on the location of the project area and its distance from the existing sewer system, extensive infrastructure such as pump stations, etc. may be needed in order to relay the project flows to the existing system. I wouldn't say that the existing system "will need upsizing" as that would be dependent on the size of the project area and its projected flows. More extensive upgrades "may be required" to the existing system if the modeling of the master plan determines constraints within the existing system. Upgrades to the existing systems would most likely impact SASD more so than Regional San, but both may be affected.

Does LAFCo have concerns with the use of this wording/language? If so, I propose we meet to discuss in further detail or we can discuss at our next meeting scheduled in a few weeks on April 12th. Don't hesitate to contact me if there are any concerns.

Thanks,

Robb

Robb Armstrong
Principal Engineering Technician

Regional San – Development Services & Plan Check
10060 Goethe Road
Sacramento, CA 95827
Phone: (916) 876-6104
Email: armstrongro@sacsewer.com
www.regionalsan.com



Please consider the environment before printing this email.

From: Henriquez. Jose <henriquezj@saccounty.gov>
Sent: Tuesday, March 29, 2022 4:30 PM
To: Armstrong. Robert <armstrongro@sacsewer.com>; Scott Johnson <SRJohnson@cityofsacramento.org>
Cc: Cheryle Hodge <CHodge@cityofsacramento.org>; Lewis. Yadira <lewis@lacsewer.com>
Subject: RE: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR

Thanks Robb,

I know it's very early, we're not there yet and I will apologize in advance if I am misinterpreting. I am not an engineer.

The NOP response letter states that Regional San and SASD have not "planned, designed, or constructed facilities to provide service to this area," and the letter directs the applicant to "complete a Sewer Master Plan that includes connection points and phasing information to assess the capacity of the existing sewer system to accommodate the additional flows generated by this project." Am I correct in thinking that there is a need for more extensive upgrades and infrastructure? It's not just a matter of simply constructing the internal wastewater pipes and connecting them to the existing Regional San/SASD network? In other words, the network itself will need upsizing and may need to have other/additional facilities built to accommodate the increase in flows for this project?

Please let me know if I misread or misinterpreted.

José

José C. Henríquez
Executive Officer
henriquezj@saclafco.org



Sacramento Local Agency Formation Commission

1112 I Street, Suite 100
Sacramento, CA 95814
(916) 874-2937 / FAX (916) 854-9099

From: Armstrong. Robert <armstrongro@sacsewer.com>
Sent: Monday, March 28, 2022 12:53 PM
To: Scott Johnson <SRJohnson@cityofsacramento.org>

Cc: Cheryle Hodge <CHodge@cityofsacramento.org>; Henriquez. Jose <henriquezj@saccounty.gov>; Lewis. Yadira <lewis@lacsewer.com>

Subject: RE: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR

Good Afternoon Scott,

Please find the attached response letter from Regional San pertaining to the above-mentioned project. Feel free to contact me with any additional questions or concerns.

Best Regards,

Robb

Robb Armstrong
Principal Engineering Technician

Regional San – Development Services & Plan Check
10060 Goethe Road
Sacramento, CA 95827
Phone: (916) 876-6104
Email: armstrongro@sacsewer.com
www.regionalsan.com



 Please consider the environment before printing this email.

From: Scott Johnson <SRJohnson@cityofsacramento.org>

Sent: Friday, March 4, 2022 6:56 AM

To: Scott Johnson <SRJohnson@cityofsacramento.org>

Cc: Cheryle Hodge <CHodge@cityofsacramento.org>; Henriquez. Jose <henriquezj@saccounty.gov>

Subject: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR

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The City of Sacramento and the Sacramento County Local Agency Formation Commission as co-lead agencies are circulating the Notice of Preparation (NOP) for the Airport South Annexation Project. Agencies and members of the public are invited to comment on the scope of the Environmental Impact Report (EIR).

The NOP comment period is March 4, 2022 to April 4, 2022. A scoping meeting will be held on March 16, 2022.

The project is located southeast of the intersection of Powerline Road and Interstate 5 (I-5) in Sacramento County, California. The approximately 450-acre project site is undeveloped and consists entirely of agricultural land. The proposed project would include development of an industrial park, that would allow for construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and

associated parking lots, on approximately 11 acres.

Comments in response to the NOP should be addressed to Scott Johnson, Senior Planner for the City of Sacramento. Telephone: (916) 808-5842; Email srjohnson@cityofsacramento.org.

The Notice of Preparation is attached.

Scott Johnson
City of Sacramento
Community Development Department
Environmental Planning Services
300 Richards Blvd., 3rd Floor
Sacramento, CA 95811
(916) 808-5842
srjohnson@cityofsacramento.org

From: [Greg Chew](#)
To: [Scott Johnson](#)
Cc: [Cheryle Hodge](#); [Henriquez, Jose](#); [Rickelton, Glen](#)
Subject: RE: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR
Date: Friday, April 1, 2022 1:42:22 PM

Mr. Johnson:

On behalf of the Airport Land Use Commission (ALUC), this letter is in response to the March 4, 2022, Notice of Preparation (NOP) of Environmental Impact Report (EIR) and Scoping meeting for the Airport South Industrial Project (P21-017). The project site falls within the influence area of Sacramento International Airport (SMF) as defined in the Airport Land Use Compatibility Plan (ALUCP) that the ALUC adopted for the airport in December 2013. While the ALUC does not have a formal role in the review or approval of EIRs, the fact that the project involves expansion of the City of Sacramento Sphere of Influence (SOI) which presumably will lead to annexation of the site and amendment of the City's General Plan gives the ALUC a formal role in determining whether the project itself will be consistent with ALUCP criteria. This letter identifies topics that the EIR and/or supporting documents must address in order for the ALUC to conduct its review and make a consistency determination when the project is submitted for formal review. Also included here is a preliminary evaluation of compatibility issues that the EIR should address in detail.

Topics for EIR to Address

- The EIR must clearly state the role and responsibility of the ALUC in review and approval of the project. Page 3 of the NOP notes some of the agency approvals required but does not mention the ALUC.
- The ALUCP contains policies and specific compatibility criteria regarding noise, safety, and airspace protection. The EIR must explicitly reference the SMF ALUCP and the proposal's relationship to the policies and development criteria for each of these compatibility factors.
- The NOP's description of the project is very limited. Although greater detail will no doubt be provided in the EIR, even this additional detail will most likely be insufficient for the ALUC to make a full consistency determination regarding development within the project site. Subsequent ALUC review of the individual developments within the overall project site will therefore be necessary. The EIR should note this requirement.
- The NOP mentions that 11 acres of the approximately 450-acre project site would be devoted to industrial uses with about 11 acres set aside for retail/commercial and hotel uses. The information in the NOP does not indicate where on the site the latter uses would be located. For reasons described below in our preliminary consistency evaluation, retail, dining, and hotels uses are likely to be incompatible with airport activity in the western part of the site and should be located as far to the eastern end of the site as possible. Industrial uses in the western part of the site should be low intensity. The EIR should discuss this restriction and the siting of individual land uses in the project design should take this into account.

Preliminary ALUCP Consistency Assessment

This assessment is preliminary and the ALUC reserves the right and responsibility to review individual developments within the project area once detailed proposals are known.

- Project Location: The project site identified in the NOP falls within SMF ALUCP Safety Zones 3, 4, and 6 (attached map showing project location relative to noise and safety zones, and ALUCP Map 3 from Sacramento Airport Land Use Compatibility Plan (ALUCP)). With respect to noise, the western portion is inside the CNEL 65 dB contour, and the remainder is between the 60 and 65 contours (ALUCP Map 2).

- Noise Criteria:
 - Hotels are conditional in the CNEL 60-to-70 dB range with the condition being to provide noise insulation sufficient to ensure no more than CNEL 45 dB inside. Normal construction should be able to meet this standard. The freeway likely generates greater noise on a CNEL scale than the airport, although peak noise from individual aircraft overflights may be the loudest noises experienced on the site.
 - Retail and restaurants are compatible outside the CNEL 65 dB contour and need only be noise insulated to CNEL 50 dB inside. Neither requirement should be an issue for interior spaces. However, outdoor spaces would be impacted by airport noise and, if facing north, by the freeway as well.
- Safety Criteria: For Safety Zone 3, uses are limited to 100 people/acre averaged over the entire site and a maximum of 250 people in any single acre. The respective Zone 4 limits are 160 people/average acre and 480 people/single acre. Zone 6 limits are 400 people/average acre and 1,200 people/single acre.
 - The average-acre criteria limit hotels to the equivalent of 0.46 Floor Area Ratio (FAR) in Zone 3 and 0.74 in Zone 4. A typical 3-story hotel probably exceeds these FARs.
 - Retail and dining are even more restricted in these zones.
 - High-intensity industrial uses also are conditional in Zones 3 and 4 because of the number of people likely to be present. Low-intensity industrial would be compatible.
 - All these uses are compatible in Zone 6.
- Airspace Protection Criteria: Regarding airspace protection, the western part of the site is beneath the approach and transitional surfaces and thus would have height limits. An FAA aeronautical study will be required for specific development proposals and could be done earlier if height details are sufficiently known. Refer to the ALUCP for guidance.

The ALUC appreciates the opportunity to offer input on this project at this early point in its design. Please feel free to contact me at gchew@sacog.org if you have any questions regarding these comments.

Greg Chew | Senior Planner

Sacramento Area Council of Governments

(916) 340-6227

gchew@sacog.org

SACOG is operating remotely until further notice. Sign up for [electronic notifications](#) to get the latest information.

From: Scott Johnson <SRJohnson@cityofsacramento.org>

Sent: Friday, March 4, 2022 6:56 AM

To: Scott Johnson <SRJohnson@cityofsacramento.org>

Cc: Cheryle Hodge <CHodge@cityofsacramento.org>; Henriquez, Jose <henriquezj@saccounty.net>

Subject: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR

EXTERNAL EMAIL: If unknown sender, **do not** click links/attachments.

The City of Sacramento and the Sacramento County Local Agency Formation Commission as co-lead agencies are circulating the Notice of Preparation (NOP) for the Airport South Annexation Project. Agencies and members of the public are invited to comment on the scope of the Environmental Impact Report (EIR).

The NOP comment period is March 4, 2022 to April 4, 2022. A scoping meeting will be held on March 16, 2022.

The project is located southeast of the intersection of Powerline Road and Interstate 5 (I-5) in Sacramento County, California. The approximately 450-acre project site is undeveloped and consists entirely of agricultural land. The proposed project would include development of an industrial park, that would allow for construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of

retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres.

Comments in response to the NOP should be addressed to Scott Johnson, Senior Planner for the City of Sacramento. Telephone: (916) 808-5842; Email srjohnson@cityofsacramento.org.

The Notice of Preparation is attached.

Scott Johnson
City of Sacramento
Community Development Department
Environmental Planning Services
300 Richards Blvd., 3rd Floor
Sacramento, CA 95811
(916) 808-5842
srjohnson@cityofsacramento.org



April 1, 2022

Scott Johnson
Senior Planner
Community Development Department
City of Sacramento
300 Richards Boulevard, 3rd Floor
Sacramento, CA 95811

Subject: Airport South Industrial Park NOP (SCH# 2022030181) (P21-017) (SAC202202926)

Dear Scott Johnson:

Thank you for providing the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District) with the opportunity to review the Notice of Preparation (NOP) for an Environmental Impact Report (EIR) for the proposed [Airport South Industrial Park](#) project, the annexation of 450 acres of land southeast of the Sacramento International Airport into the City of Sacramento, to allow for the construction of up to 6,600,000 square feet (sf) of industrial uses and 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality uses. Please accept our comments on air quality considerations for project California Environmental Quality Act (CEQA) review.

CEQA Review

- Please reference Sac Metro Air District's guidance on reviewing projects under CEQA, [The Guide to Air Quality Assessment in Sacramento County](#) (CEQA Guide), available on our website, in preparing the project's EIR.

Due to the project's location outside of the Sacramento County Urban Services Boundary, the EIR's analysis of project consistency with Sacramento region's [Metropolitan Transportation Plan and Sustainable Communities Strategy](#) (MTP / SCS) will be critical to disclosing project greenhouse gas and air quality impacts. The MTP / SCS is essential to ensuring land use and transportation development that supports the Sacramento region's achievement of federal and state air quality and climate goals.

CEQA requires full disclosure of expected emissions from the project. The fleet mix associated with an industrial land use project will likely consist of a higher portion of heavy-duty trucks, and it is important to ensure adequate disclosure of project air quality and climate impacts.

- Sac Metro Air District recommends estimating project operational emissions using [CalEEMod](#), or using [EMFAC](#) applied to motor vehicle trip estimates, in this case truck trip estimates.

Operational Analysis - AQMP

The EIR's analysis of operational emissions should quantify and disclose projected operational emissions of [criteria pollutants](#), pollutants regulated by the Clean Air Act, using methods referenced in [the CEQA Guide's chapter on Operational Criteria Air Pollutant and Precursor Emissions](#). If operational emissions

are projected to exceed applicable Sac Metro Air District thresholds of significance, the EIR should incorporate mitigation measures for those emissions, using methods in this chapter.

For projects that will exceed Sac Metro Air District's operational emissions thresholds of significance for reactive organic gases, oxides of nitrogen, or particulate matter, Sac Metro Air District recommends the project proponent develop an Air Quality Mitigation Plan (AQMP) with measures to reduce project operational emissions. For projects that are not consistent with the MTP / SCS, we recommend the AQMP incorporate measures to reduce operational emissions by 35%.

Sac Metro Air District recommends using its [Recommended Guidance for Land Use Emission Reductions](#) to develop AQMP measures. The AQMP can be a standalone document or incorporated into the environmental document. The AQMP must be referenced in the EIR as an air quality mitigation measure, appended to the document, and referenced as a condition of approval by the lead agency.

- Should the project develop an AQMP, Sac Metro Air District respectfully requests consultation to review the AQMP for technical adequacy prior to inclusion in the draft EIR.

As part of this process, Sac Metro Air District would work with the applicant and Sacramento Regional Transit (SacRT) staff to determine transit measures that could help reduce project single occupancy vehicle emissions, possibly including shuttle services to accommodate warehouse shift workers, and pedestrian and bicycle infrastructure to enable viable access to a planned SacRT light rail station to the project's north.

- Sac Metro Air District recommends that the project locates industrial uses primarily to the west and the retail and other commercial uses primarily to the east. This configuration will help reduce project operational emissions from motor vehicle miles traveled, due to the proximity of the retail uses to the residential uses, in addition to reducing potential health risk to the residential and public school uses to the east, as discussed below.

Additionally, as part of this process, Sac Metro Air District would work with the applicant to ensure that the project is ready for California's [Truck and Bus Regulation](#), which transitions the freight industry to zero emission technologies. We would work with the applicant to accommodate low- and zero-emission heavy-duty truck technology to the greatest extent possible through zero-emission heavy-duty truck infrastructure.

Operational Analysis - Friant

To analyze health effects resulting from operational emissions, pursuant to the California Supreme Court "Friant Ranch" decision, please consult Sac Metro Air District's [Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District](#).

Greenhouse Gas Analysis

The EIR's analysis should quantify and disclose projected greenhouse gas (GHG) emissions resulting from project construction and operations, using methods referenced in [the CEQA Guide's chapter on Greenhouse Gas Emissions](#). If GHG emissions are projected to exceed applicable Sac Metro Air District thresholds of significance, the EIR should incorporate mitigation measures for those emissions, using methods in this chapter.

Under [Sac Metro Air District's GHG thresholds of significance](#), projects that are not subject to a [Qualified Climate Action Plan](#) must implement Best Management Practices (BMPs) including the following.

1. No natural gas: projects shall be designed and constructed without natural gas infrastructure
2. Electric vehicle (EV) ready: projects shall meet the current [California Green Building Standards Code](#) (CalGreen) Tier 2 standards, except all EV capable spaces shall instead be EV ready
3. After implementation of the first two BMPs, if the project's operational emissions exceed 1,100 metric tons of GHG emissions per year, then the project must demonstrate that it meets the [California Governor's Office of Planning and Research SB 743 Technical Advisory](#) de minimis criteria for vehicle miles traveled, or reduce project vehicle miles traveled by 15% residential and 15% worker relative to averages for Sacramento County, with no net increase in retail vehicle miles traveled.

For quick reference, please visit our [Greenhouse Gas Threshold Applicability flow chart](#).

Construction Analysis

The EIR's construction analysis should quantify and disclose projected construction emissions of [criteria pollutants](#) using methods referenced in [the CEQA Guide's chapter on Construction-Generated Criteria Air Pollutant and Precursor Emissions](#). If construction emissions are projected to exceed applicable [Sac Metro Air District thresholds of significance](#), the EIR should incorporate mitigation measures for construction emissions, using methods in this chapter.

All projects are subject to Sac Metro Air District rules and regulations at the time of construction. Please visit our website to find [a list of the most common rules that apply at the construction phase of projects](#). All projects undergoing CEQA review must implement Sac Metro Air District [Basic Construction Emission Control Practices](#), also available on our website, in order to use the non-zero particulate matter CEQA thresholds of significance.

Toxic Air Contaminants

The project's industrial uses may include manufacturing uses, which are often associated with [toxic air contaminant](#) (TAC) emissions. Using methods referenced in [the CEQA Guide's chapter on TAC Emissions](#), the EIR should include a discussion of whether the project would locate any permitted or nonpermitted sources of TACs in locations with strong potential to affect human health, a significance determination about TAC exposure resulting from project operations without mitigation, and a discussion of feasible mitigation necessary to reduce TAC exposure resulting from project operations to a less-than-significant level.


Permitting Requirements

Please be aware that any project manufacturing uses may require an Authority to Construct and Permit to Operate from the Sac Metro Air District. Please contact the Sac Metro Air District at 800-880-9025 or permitting@airquality.org with comments or questions on permit or registration requirements. For permit application forms and instructions, please visit the following page on the Sac Metro Air District website: <http://www.airquality.org/Businesses/Permits-Registration-Programs>.

Conclusion

Thank you for your attention to our comments. If you have questions about them, please contact me at mwright@airquality.org or 916-874-4207.

Sincerely,

A handwritten signature in cursive script that reads "Molly Wright".

Molly Wright, AICP
Air Quality Planner / Analyst

cc: Paul Philley, AICP, CEQA and Land Use Program Supervisor, Sac Metro Air District



Regional Transit

**Sacramento Regional
Transit District**
A Public Transit Agency
and Equal Opportunity Employer

Administrative Offices
1400 29th Street
Sacramento, CA 95816
916-321-2800

Mailing Address
P.O. Box 2110
Sacramento, CA 95812-2110

Human Resources
2810 O Street
Sacramento, CA 95816
916-556-0299

**Customer Service &
Sales Center**
1225 R Street
Sacramento, CA 95811

**Route, Schedule & Fare
Information**
916-321-BUSS (2877)
TDD 916-483-HEAR (4327)
sacrt.com

Public Transit Since 1973

April 1, 2022

Scott Johnson
City of Sacramento
Community Development Department
300 Richard Boulevard 3rd Floor
Sacramento, CA 95811

NAME OF DEVELOPMENT: Airport South Industrial Park
TYPE OF DOCUMENTS: Notice of Preparation (NOP)

Sacramento Regional Transit District (SacRT) appreciates the opportunity to review the Notice of Preparation (NOP) for an Environmental Impact Report (EIR) for the proposed Airport South Industrial Park Project (project). The project is an annexation of 450 acres of land southeast of the Sacramento International Airport into the City of Sacramento, to allow for the construction of up to 6,600,000 square feet (sf) of industrial uses and 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality uses and associated parking lots on approximately 11 acres.

SacRT has the following comments:

- SacRT staff would like to work with the City and future applicants to determine transit measures that could help reduce project single occupancy vehicle emissions.
- The EIR should describe how Greenhouse Gases and Vehicle Miles Traveled would be mitigated with this size of development.
- There should be pedestrian and bicycle infrastructure to enable feasible access to a planned SacRT light rail station to the project's north.
- Consider conditioning industrial uses primarily to the west and the retail and other commercial uses primarily to the east. This configuration could help reduce project operational emissions from motor vehicle miles traveled, due to the proximity of the retail uses to the existing residential uses, in addition to the potential of health risk to the residential and public school uses to the east.

Thank you for the opportunity to provide comments pertaining to the Airport South Industrial Park Project. We look forward to working with the City and the development team to provide safe and accessible transit service to patrons of the development. Please feel free to contact me directly if you have any questions or concerns. I may be reached at 279-234-8374, or kschroder@sacrt.com.

Sincerely,

Kevin Schroder
Senior Planner, SacRT

California Department of Transportation

DISTRICT 3
703 B STREET | MARYSVILLE, CA 95901-5556
(530) 821-8261 | FAX (530) 741-4245 TTY 711
www.dot.ca.gov



April 4, 2022

GTS# 03-SAC-2022-01071

Scott Johnson,
Senior Planner
City of Sacramento Community Development Department
300 Richards Blvd., Third Floor
Sacramento, CA 95811

Airport South Industrial Project (P21-017) – Notice of Preparation

Dear Mr. Johnson:

Thank you for including the California Department of Transportation (Caltrans) in the review process for the project referenced above. We reviewed this local development for impacts to the State Highway System (SHS) in keeping with our mission, vision, and goals, some of which includes addressing equity, climate change, and safety, as outlined in our statewide plans such as the California Transportation Plan, Caltrans Strategic Plan, and Climate Action Plan for Transportation Infrastructure.

The project is located southeast of the intersection of Powerline Road and Interstate 5 (I-5) in Sacramento County, California, approximately one mile west of State Route (SR) 99. The approximately 450-acre project site is undeveloped and consists entirely of agricultural land. The project would include development of an industrial park, that would entail the construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres. The Sacramento County Local Agency Formation Commission is a co-Lead Agency with the City of Sacramento, where the actions will include a Sphere of Influence Amendment, General Plan Amendment/Rezone and Annexation. Based on the Notice of Preparation of a draft environmental impact Report (DEIR), Caltrans provides the following comments.

Forecasting & Modeling

Caltrans requests a detailed Vehicle Miles Traveled (VMT) analysis consistent with Office of Planning and Research guidelines. The project is large enough to potentially impact the adjacent I-5 freeway and surrounding network of freeways.

- Please provide a VMT analysis to identify potential VMT impacts on the highway network, with an in-depth study of the specific land uses.
- Caltrans requests trip generation, access/egress points and other relevant information as part of the analysis.

Traffic Safety/Operations

Caltrans requests a safety queuing study at the I-5 Metro Air Park Interchange on/off ramps, SR 99 -West Elkhorn Blvd Interchange off/on ramps, and the I-5 Del Paso Road Interchange on/off ramps.

- The Airport South Industrial development can be directly accessed via the newly built I-5 at Metro Air Park Interchange. The I-5 Del Paso Road Interchange and the SR 99 Elkhorn Interchange provides another point of access to the development. These interchanges should be evaluated for potential safety and operational impacts caused by the proposed Airport South Development.
- We acknowledge that the Metro Air Park interchange is being constructed in phases, with Sacramento County as the Lead Agency for that project.
 - Caltrans requests a discussion on how the Airport South Industrial Project interacts with the Metro Air Park phasing strategy, including trigger points and potential cost sharing if applicable.
- Caltrans requests a coordination meeting with the City of Sacramento to occur prior to beginning the Local Transportation Analysis (LTA).
- Caltrans requests the Caltrans Highway Design Manual (HDM) be used to analyze whether the Metro Air Park Interchange projected off-ramp volumes with the development warrant additional turn lanes at the intersections.
- Caltrans requests a signal warrant analysis should also be conducted to determine if signalization is required at the Metro Air Park interchange with the addition of this development.
- Additionally, Caltrans requests the LTA study assess whether the full build out of the interchange is needed with the addition of the development, which would include building the SB I-5 slip on-ramp from NB Metro Air Parkway and the NB I-5 loop on-ramp from NB Metro Air Parkway.
- Significant volumes of trucks using this interchange, especially during peak hours, could affect the ability of trucks to accelerate for safe merging onto SB I-5 from the loop ramp.
 - Caltrans requests a discussion on truck volumes, primary travel routes and primary times of travel, as well as potential signalization on the ramps at Metro Air Parkway to assess safe access for trucks at this location.
- Caltrans requests an evaluation of potential impacts to pedestrian safety at the ramps to the interchanges mentioned above.

Hydraulics

In addition to the elements of the necessary traffic study discussed above, please be advised that the location of the project raises the following considerations with regard to storm water management and project analysis for the purpose of the Draft Environmental Impact Report (DEIR).

- The development of this site will increase impervious surface area through the construction of roads, driveways, parking lots, buildings, etc. with a corresponding increase in surface water runoff. This project will decrease surface water detention, retention, and infiltration. No net increase to 100-year storm event peak discharge may be realized within the State's highway right of way and/or Caltrans drainage facilities as a result of the project. Any cumulative impacts to Caltrans drainage facilities arising from effects of development on surface water runoff discharge from the 100-year storm event should be minimized through project drainage mitigation measures.
- All grading and/or drainage improvements must maintain or improve existing drainage pathways and may not result in adverse hydrologic or hydraulic conditions within the State's highway right of way or to Caltrans drainage facilities. The developer must maintain or improve existing drainage patterns and/or facilities affected by the proposed project to the satisfaction of the State and Caltrans.
- Runoff from the proposed project that will enter the State's highway right of way and/or Caltrans drainage facilities must meet all regional water quality control board water quality standards prior to entering the State's highway right of way or Caltrans drainage facilities. Appropriate storm water quality Best Management Practices may be applied to ensure that runoff from the site meets these standards (i.e., is free of oils, greases, metals, sands, sediment, etc.). Once installed, the property owner must properly maintain these systems in perpetuity.

Environmental

Any work that occurs within the Caltrans right of way must be reviewed by environmental during the encroachment permit process and the applicant is responsible for mitigating any environmental or cultural concerns. In addition, please make sure VMT is addressed in the DEIR as requested above, and is mitigated sufficiently. As this project will almost certainly increase VMT, there may be implications for I-5 and R99.

Encroachment Permit

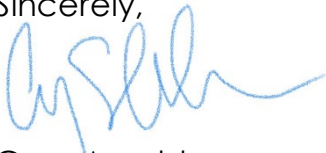
Any project along or within the State's Right of Way (ROW) requires an encroachment permit issued by Caltrans. A pre-application meeting with the encroachment permits unit is required (D3encpermit@dot.ca.gov). To apply, a completed encroachment permit application, environmental documentation, and five sets of plans clearly indicating State ROW must be submitted to:

Hikmat Bsaibess
California Department of Transportation
District 3, Office of Permits
703 B Street
Marysville, CA 95901

Please provide our office with copies of any further actions regarding this proposal. We would appreciate the opportunity to review and comment on any changes related to this development.

If you have any questions regarding these comments or require additional information, please contact Satwinder Dhatt, Local Development Review Coordinator for Sutter County, by phone (530) 821-8261 or via email at Satwinder.dhatt@dot.ca.gov.

Sincerely,



Gary Arnold
Branch Chief, Transportation Planning – North
Planning, Local Assistance, and Sustainability
Caltrans District 3



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670-4599
916-358-2900
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director



April 4, 2022

Scott Johnson
City of Sacramento Community Development Department
300 Richard Boulevard, 3rd Flood
Sacramento, CA 95811
Srjohnson@cityofsacramento.gov

Subject: AIRPORT SOUTH INDUSTRIAL PARK
SCH# 2022030181

Dear Mr. Johnson:

The California Department of Fish and Wildlife (CDFW) received and reviewed the Notice of Preparation of an Environmental Impact Report (EIR) from the City of Sacramento (City) for the Airport South Industrial Park (Project) in Sacramento County pursuant to the California Environmental Quality Act (CEQA) statute and guidelines.¹

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish, wildlife, plants and their habitats. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may need to exercise its own regulatory authority under the Fish and Game Code (Fish & G. Code).

CDFW ROLE

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802.). Similarly, for purposes of CEQA, CDFW provides, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW may also act as a Responsible Agency under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration

¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Airport South Industrial Park

April 4, 2022

Page 2 of 14

regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in “take” as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

PROJECT DESCRIPTION SUMMARY

The proposed Project site is located southeast of the intersection of Powerline Road and Interstate 5 (I-5). Currently, the Project site consists entirely of undeveloped agricultural land in unincorporated areas outside the existing City of Sacramento limits. The Sacramento County General Plan designates the Project site as Agricultural Cropland, zoned Agricultural (AG-80). The proposed Project would include development of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres of the Project site, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres of the site. The proposed Project would require approval of the following entitlements: Sacramento County Local Agency Formation Commission (LAFCo) approval of a Sphere of Influence Amendment and Reorganization (annexation and related detachments); and City of Sacramento approval of a Prezone, General Plan Amendment, Tentative Master Parcel Map, Development Agreement, and Planned Unit Development.

The Project description should include the whole action as defined in the CEQA Guidelines § 15378 and should include appropriate detailed exhibits disclosing the Project area including temporary impacted areas such as equipment stage area, spoils areas, adjacent infrastructure development, staging areas and access and haul roads if applicable.

As required by § 15126.6 of the CEQA Guidelines, the EIR should include an appropriate range of reasonable and feasible alternatives that would attain most of the basic Project objectives and avoid or minimize significant impacts to resources under CDFW's jurisdiction.

COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations presented below to assist the City in adequately identifying and/or mitigating the Project's significant, or potentially significant, impacts on biological resources. The comments and recommendations are also offered to enable CDFW to adequately review and comment on the proposed Project with respect to impacts on biological resources. CDFW recommends that the forthcoming EIR address the following:

Assessment of Biological Resources

Section 15125(c) of the CEQA Guidelines states that knowledge of the regional setting of a project is critical to the assessment of environmental impacts and that special

Airport South Industrial Park

April 4, 2022

Page 3 of 14

emphasis should be placed on environmental resources that are rare or unique to the region. To enable CDFW staff to adequately review and comment on the Project, the EIR should include a complete assessment of the flora and fauna within and adjacent to the Project footprint, with emphasis on identifying rare, threatened, endangered, and other sensitive species and their associated habitats. CDFW recommends that the EIR specifically include:

1. An assessment of all habitat types located within the Project footprint, and a map that identifies the location of each habitat type. CDFW recommends that floristic, alliance- and/or association-based mapping and assessment be completed following *The Manual of California Vegetation*, second edition (Sawyer 2009). Adjoining habitat areas should also be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions.
2. A general biological inventory of the fish, amphibian, reptile, bird, and mammal species that are present or have the potential to be present within each habitat type onsite and within adjacent areas that could be affected by the Project. CDFW recommends that the California Natural Diversity Database (CNDDDB), as well as previous studies performed in the area, be consulted to assess the potential presence of sensitive species and habitats. A nine United States Geologic Survey 7.5-minute quadrangle search is recommended to determine what may occur in the region, larger if the Project area extends past one quad (see *Data Use Guidelines* on the Department webpage www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data). Please review the webpage for information on how to access the database to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code, in the vicinity of the Project. CDFW recommends that CNDDDB Field Survey Forms be completed and submitted to CNDDDB to document survey results. Online forms can be obtained and submitted at: <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>.

Please note that CDFW's CNDDDB is not exhaustive in terms of the data it houses, nor is it an absence database. CDFW recommends that it be used as a starting point in gathering information about the *potential presence* of species within the general area of the Project site. Other sources for identification of species and habitats near or adjacent to the Project area should include, but may not be limited to, State and federal resource agency lists, California Wildlife Habitat Relationship System, California Native Plant Society Inventory, agency contacts, environmental documents for other projects in the vicinity, academics, and professional or scientific organizations.

3. A complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including California Species of Special Concern and

Airport South Industrial Park

April 4, 2022

Page 4 of 14

California Fully Protected Species (Fish & G. Code § 3511). Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. The EIR should include the results of focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable. Species-specific surveys should be conducted in order to ascertain the presence of species with the potential to be directly, indirectly, on or within a reasonable distance of the Project activities. CDFW recommends the City rely on survey and monitoring protocols and guidelines available at: www.wildlife.ca.gov/Conservation/Survey-Protocols. Alternative survey protocols may be warranted; justification should be provided to substantiate why an alternative protocol is necessary. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Some aspects of the Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, or if surveys are completed during periods of drought or deluge.

4. A thorough, recent (within the last two years), floristic-based assessment of special-status plants and natural communities, following CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (see www.wildlife.ca.gov/Conservation/Plants).
5. Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region (CEQA Guidelines § 15125[c]).

Analysis of Direct, Indirect, and Cumulative Impacts to Biological Resources

The EIR should provide a thorough discussion of the Project's potential direct, indirect, and cumulative impacts on biological resources. To ensure that Project impacts on biological resources are fully analyzed, the following information should be included in the EIR:

1. The EIR should define the threshold of significance for each impact and describe the criteria used to determine whether the impacts are significant (CEQA Guidelines, § 15064, subd. (f)). The EIR must demonstrate that the significant environmental impacts of the Project were adequately investigated and discussed and it must permit the significant effects of the Project to be considered in the full environmental context.
2. A discussion of potential impacts from lighting, noise, human activity, and wildlife-human interactions created by Project activities especially those adjacent to natural areas, exotic and/or invasive species occurrences, and drainages. The EIR should address Project-related changes to drainage patterns and water

Airport South Industrial Park

April 4, 2022

Page 5 of 14

quality within, upstream, and downstream of the Project site, including: volume, velocity, and frequency of existing and post-Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project site.

3. A discussion of potential indirect Project impacts on biological resources, including resources in areas adjacent to the Project footprint, such as nearby public lands (e.g. National Forests, State Parks, etc.), open space, adjacent natural habitats, riparian ecosystems, wildlife corridors, and any designated and/or proposed reserve or mitigation lands (e.g., preserved lands associated with a Conservation or Recovery Plan, or other conserved lands).
4. A cumulative effects analysis developed as described under CEQA Guidelines section 15130. The EIR should discuss the Project's cumulative impacts to natural resources and determine if that contribution would result in a significant impact. The EIR should include a list of present, past, and probable future projects producing related impacts to biological resources or shall include a summary of the projections contained in an adopted local, regional, or statewide plan, that consider conditions contributing to a cumulative effect. The cumulative analysis shall include impact analysis of vegetation and habitat reductions within the area and their potential cumulative effects. Please include all potential direct and indirect Project-related impacts to riparian areas, wetlands, wildlife corridors or wildlife movement areas, aquatic habitats, sensitive species and/or special-status species, open space, and adjacent natural habitats in the cumulative effects analysis.

Mitigation Measures for Project Impacts to Biological Resources

The EIR should include appropriate and adequate avoidance, minimization, and/or mitigation measures for all direct, indirect, and cumulative impacts that are expected to occur as a result of the construction and long-term operation and maintenance of the Project. CDFW also recommends that the environmental documentation provide scientifically supported discussion regarding adequate avoidance, minimization, and/or mitigation measures to address the Project's significant impacts upon fish and wildlife and their habitat. For individual projects, mitigation must be roughly proportional to the level of impacts, including cumulative impacts, in accordance with the provisions of CEQA (Guidelines § § 15126.4(a)(4)(B), 15064, 15065, and 16355). In order for mitigation measures to be effective, they must be specific, enforceable, and feasible actions that will improve environmental conditions. When proposing measures to avoid, minimize, or mitigate impacts, CDFW recommends consideration of the following:

1. *Fully Protected Species*: Several Fully Protected Species (Fish & G. Code § 3511) have the potential to occur within or adjacent to the Project area, including, but not limited to: white-tailed kite (*Elanus leucurus*). Fully protected species may not be taken or possessed at any time. Project activities described in the EIR should be designed to completely avoid any fully protected species that have the

Airport South Industrial Park

April 4, 2022

Page 6 of 14

potential to be present within or adjacent to the Project area. CDFW also recommends that the EIR fully analyze potential adverse impacts to fully protected species due to habitat modification, loss of foraging habitat, and/or interruption of migratory and breeding behaviors. CDFW recommends that the City include in the analysis how appropriate avoidance, minimization and mitigation measures will reduce indirect impacts to fully protected species.

2. *Species of Special Concern*: Several Species of Special Concern (SSC) have the potential to occur within or adjacent to the Project area, including, but not limited to: western pond turtle (*Actinemys marmorata*). Project activities described in the EIR should be designed to avoid any SSC that have the potential to be present within or adjacent to the Project area. CDFW also recommends that the EIR fully analyze potential adverse impacts to SSC due to habitat modification, loss of foraging habitat, and/or interruption of migratory and breeding behaviors. CDFW recommends the City include in the analysis how appropriate avoidance, minimization and mitigation measures will reduce impacts to SSC.
3. *Sensitive Plant Communities*: CDFW considers sensitive plant communities to be imperiled habitats having both local and regional significance. Plant communities, alliances, and associations with a statewide ranking of S-1, S-2, S-3, and S-4 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by querying the CNDDDB and are included in *The Manual of California Vegetation* (Sawyer 2009). The EIR should include measures to fully avoid and otherwise protect sensitive plant communities from Project-related direct and indirect impacts.
4. *Mitigation*: CDFW considers adverse Project-related impacts to sensitive species and habitats to be significant to both local and regional ecosystems, and the EIR should include mitigation measures for adverse Project-related impacts to these resources. Mitigation measures should emphasize avoidance and reduction of Project impacts. For unavoidable impacts, onsite habitat restoration, enhancement, or permanent protection should be evaluated and discussed in detail. If onsite mitigation is not feasible or would not be biologically viable and therefore not adequately mitigate the loss of biological functions and values, offsite mitigation through habitat creation and/or acquisition and preservation in perpetuity should be addressed.

The EIR should include measures to perpetually protect the targeted habitat values within mitigation areas from direct and indirect adverse impacts in order to meet mitigation objectives to offset Project-induced qualitative and quantitative losses of biological values. Specific issues that should be addressed include restrictions on access, proposed land dedications, long-term monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc.

Airport South Industrial Park

April 4, 2022

Page 7 of 14

5. *Habitat Revegetation/Restoration Plans*: Plans for restoration and revegetation should be prepared by persons with expertise in the regional ecosystems and native plant restoration techniques. Plans should identify the assumptions used to develop the proposed restoration strategy. Each plan should include, at a minimum: (a) the location of restoration sites and assessment of appropriate reference sites; (b) the plant species to be used, sources of local propagules, container sizes, and seeding rates; (c) a schematic depicting the mitigation area; (d) a local seed and cuttings and planting schedule; (e) a description of the irrigation methodology; (f) measures to control exotic vegetation on site; (g) specific success criteria; (h) a detailed monitoring program; (i) contingency measures should the success criteria not be met; and (j) identification of the party responsible for meeting the success criteria and providing for conservation of the mitigation site in perpetuity. Monitoring of restoration areas should extend across a sufficient time frame to ensure that the new habitat is established, self-sustaining, and capable of surviving drought.

CDFW recommends that local onsite propagules from the Project area and nearby vicinity be collected and used for restoration purposes. Onsite seed collection should be appropriately timed to ensure the viability of the seeds when planted. Onsite vegetation mapping at the alliance and/or association level should be used to develop appropriate restoration goals and local plant palettes. Reference areas should be identified to help guide restoration efforts. Specific restoration plans should be developed for various Project components as appropriate. Restoration objectives should include protecting special habitat elements or re-creating them in areas affected by the Project. Examples may include retention of woody material, logs, snags, rocks, and brush piles. Fish and Game Code sections 1002, 1002.5 and 1003 authorize CDFW to issue permits for the take or possession of plants and wildlife for scientific, educational, and propagation purposes. Please see our website for more information on Scientific Collecting Permits at www.wildlife.ca.gov/Licensing/Scientific-Collecting#53949678-regulations-.

6. *Nesting Birds*: Please note that it is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Migratory non-game native bird species are protected by international treaty under the federal Migratory Bird Treaty Act (MBTA) of 1918, as amended (16 U.S.C. 703 *et seq.*). CDFW implemented the MBTA by adopting the Fish and Game Code section 3513. Fish and Game Code sections 3503, 3503.5 and 3800 provide additional protection to nongame birds, birds of prey, their nests and eggs. Sections 3503, 3503.5, and 3513 of the Fish and Game Code afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by the Fish and Game Code or any regulation made pursuant thereto; section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by the

Airport South Industrial Park

April 4, 2022

Page 8 of 14

Fish and Game Code or any regulation adopted pursuant thereto; and section 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

Potential habitat for nesting birds and birds of prey is present within the Project area. The Project should disclose all potential activities that may incur a direct or indirect take to nongame nesting birds within the Project footprint and its vicinity. Appropriate avoidance, minimization, and/or mitigation measures to avoid take must be included in the EIR.

CDFW recommends that the EIR include specific avoidance and minimization measures to ensure that impacts to nesting birds or their nests do not occur. Project-specific avoidance and minimization measures may include, but not be limited to: Project phasing and timing, monitoring of Project-related noise (where applicable), sound walls, and buffers, where appropriate. The EIR should also include specific avoidance and minimization measures that will be implemented should a nest be located within the Project site. In addition to larger, protocol level survey efforts (e.g. Swainson's hawk surveys) and scientific assessments, CDFW recommends a final preconstruction survey be required no more than three (3) days prior to vegetation clearing or ground disturbance activities, as instances of nesting could be missed if surveys are conducted earlier.

7. *Moving out of Harm's Way*: The Project is anticipated to result in the clearing of natural habitats that support native species. To avoid direct mortality, the City should state in the EIR a requirement for a qualified biologist with the proper handling permits be retained to be onsite prior to and during all ground- and habitat-disturbing activities. The qualified biologist with the proper permits may move out of harm's way special-status species or other wildlife of low or limited mobility that would otherwise be injured or killed from Project-related activities, as needed. The EIR should also describe the biologist qualifications and authorities to stop work to prevent direct mortality of special-status species. CDFW recommends fish and wildlife species be allowed to move out of harm's way on their own volition, if possible, and to assist their relocation as a last resort. It should be noted that the temporary relocation of onsite wildlife does not constitute effective mitigation for habitat loss.
8. *Translocation of Species*: CDFW generally does not support the use of relocation, salvage, and/or transplantation as the sole mitigation for impacts to rare, threatened, or endangered species as these efforts are generally experimental in nature and largely unsuccessful. Therefore, the EIR should describe additional mitigation measures utilizing habitat restoration, conservation, and/or preservation, in addition to avoidance and minimization measures, if it is determined that there may be impacts to rare, threatened, or endangered species.

Airport South Industrial Park

April 4, 2022

Page 9 of 14

The EIR should incorporate mitigation performance standards that would ensure that impacts are reduced to a less-than-significant level. Mitigation measures proposed in the EIR should be made a condition of approval of the Project. Please note that obtaining a permit from CDFW by itself with no other mitigation proposal may constitute mitigation deferral. CEQA Guidelines section 15126.4, subdivision (a)(1)(B) states that formulation of mitigation measures should not be deferred until some future time. To avoid deferring mitigation in this way, the EIR should describe avoidance, minimization and mitigation measures that would be implemented should the impact occur.

California Endangered Species Act

CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to the CESA. CDFW recommends that a CESA Incidental Take Permit (ITP) be obtained if the Project has the potential to result in “take” (Fish & G. Code § 86 defines “take” as “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill”) of State-listed CESA species, either through construction or over the life of the Project.

CESA-listed species that are known to occur in the project area include but are not limited to: Swainson’s hawk (*Buteo swainsoni*) and giant garter snake (*Thamnophis gigas*).

The EIR should disclose the potential of the Project to take CESA-listed species and how the impacts will be avoided, minimized, and mitigated. Please note that mitigation measures that are adequate to reduce impacts to a less-than significant level to meet CEQA requirements may not be enough for the issuance of an ITP. To issue an ITP, CDFW must demonstrate that the impacts of the authorized take will be minimized and fully mitigated (Fish & G. Code §2081 (b)). To facilitate the issuance of an ITP, if applicable, CDFW recommends the EIR include measures to minimize and fully mitigate the impacts to any State-listed species the Project has potential to take. CDFW encourages early consultation with staff to determine appropriate measures to facilitate future permitting processes and to engage with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service to coordinate specific measures if both state and federally listed species may be present within the Project vicinity.

Natomas Basin Habitat Conservation Plan (NBHCP) and Metro Air Park Habitat Conservation Plan (MAP HCP)

The Project is within the boundaries of the NBHCP and adjacent to the boundary of the MAP HCP. CEQA Guidelines section 15125(d) states that EIRs must discuss any inconsistencies between projects and applicable plans (including habitat conservation plans/natural community conservation plans). Because the NBHCP and MAP HCP are currently in implementation, CDFW recommends that the EIR include a discussion of each Project alternative’s consistency with the NBHCP and MAP HCP and how the City will ensure that implementation of the Project alternatives do not impede the City’s

Airport South Industrial Park

April 4, 2022

Page 10 of 14

ability to meet the NBHCP's or MAP HCP's permit conditions and biological goals and measurable objectives. Particular focus in the EIR's analysis should be directed to:

- Analysis of all NBHCP and MAP HCP Covered Species.
- Assessment of habitat types identified in the NBHCP and MAP HCP.
- Analysis of aquatic migratory corridors for giant garter snake.
- Identification of applicable NBHCP and MAP HCP avoidance, minimization, or mitigation measures.
- Analysis of any impacts to land commitments of the NBHCP and MAP HCP.
- Discussion of any inconsistencies between the Project and the NBHCP and MAP HCP.

To identify any potential inconsistencies with the NBHCP and MAP HCP and provide special emphasis on rare or unique resources in compliance with CEQA, CDFW recommends that the EIR also address the following:

- Project related impacts from developing up to 408 acres of non-habitat related development (or otherwise potentially incompatible land use) on the available ecosystem resources available for NBHCP and MAP HCP Covered Species. Persistence of the NBHCP and MAP HCP Covered Species, critical for the success of both plans, includes sustaining the appropriate levels of habitat (foraging, nesting, dispersal, cover, etc.) to support all Covered Species within the NBHCP and MAP HCP boundaries.
- Project related impacts from developing up to 408 acres of non-habitat related development (or otherwise potentially incompatible land use) adjacent to established or future reserve land managed under the Natomas Basin Conservancy (TNBC).
- Reduction of available reserve land if the Project develops up to 408 acres for non-habitat uses. Note, reserve land described in the NBHCP and MAP HCP must meet both habitat value criteria and be sited with appropriate buffers and setbacks.
- The potential for the Project to cause financial impacts to The Natomas Basin Conservancy and fee-payers under the NBHCP and MAP HCP.

Native Plant Protection Act

The Native Plant Protection Act (Fish & G. Code §1900 *et seq.*) prohibits the take or possession of State-listed rare and endangered plants, including any part or product thereof, unless authorized by CDFW or in certain limited circumstances. Take of state-listed rare and/or endangered plants due to Project activities may only be permitted through an ITP or other authorization issued by CDFW pursuant to California Code of Regulations, Title 14, section 786.9 subdivision (b).

Lake and Streambed Alteration Program

The EIR should identify all perennial, intermittent, and ephemeral rivers, streams, lakes,

Airport South Industrial Park

April 4, 2022

Page 11 of 14

other hydrologically connected aquatic features, and any associated biological resources/habitats present within the entire Project footprint (including utilities, access and staging areas). The environmental document should analyze all potential temporary, permanent, direct, indirect and/or cumulative impacts to the above-mentioned features and associated biological resources/habitats that may occur because of the Project. If it is determined the Project will result in significant impacts to these resources the EIR shall propose appropriate avoidance, minimization and/or mitigation measures to reduce impacts to a less-than-significant level.

Section 1602 of the Fish and Game Code requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials that could pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.

If upon review of an entity's notification, CDFW determines that the Project activities may substantially adversely affect an existing fish or wildlife resource, a Lake and Streambed Alteration (LSA) Agreement will be issued which will include reasonable measures necessary to protect the resource. CDFW's issuance of an LSA Agreement is a "project" subject to CEQA (see Pub. Resources Code 21065). To facilitate issuance of an LSA Agreement, if one is necessary, the EIR should fully identify the potential impacts to the lake, stream, or riparian resources, and provide adequate avoidance, mitigation, and monitoring and reporting commitments. Early consultation with CDFW is recommended, since modification of the Project may avoid or reduce impacts to fish and wildlife resources. To submit an LSA Notification package, please go to <https://www.wildlife.ca.gov/Conservation/Environmental-Review/LSA>.

Please note that other agencies may use specific methods and definitions to determine impacts to areas subject to their authorities. These methods and definitions often do not include all needed information for CDFW to determine the extent of fish and wildlife resources affected by activities subject to Notification under Fish and Game Code section 1602. Therefore, CDFW does not recommend relying solely on methods developed specifically for delineating areas subject to other agencies' jurisdiction (such as United States Army Corps of Engineers) when mapping lakes, streams, wetlands, floodplains, riparian areas, etc. in preparation for submitting a Notification of an LSA.

CDFW relies on the City's environmental document analysis when acting as a responsible agency issuing an LSA Agreement. CDFW recommends lead agencies coordinate with us as early as possible, since potential modification of the proposed Project may avoid or reduce impacts to fish and wildlife resources and expedite the Project approval process.

Airport South Industrial Park

April 4, 2022

Page 12 of 14

The following information will be required for the processing of an LSA Notification and CDFW recommends incorporating this information into any forthcoming CEQA document(s) to avoid subsequent documentation and Project delays:

1. Mapping and quantification of lakes, streams, and associated fish and wildlife habitat (e.g., riparian habitat, freshwater wetlands, etc.) that will be temporarily and/or permanently impacted by the Project, including impacts from access and staging areas. Please include an estimate of impact to each habitat type.
2. Discussion of specific avoidance, minimization, and mitigation measures to reduce Project impacts to fish and wildlife resources to a less-than-significant level. Please refer to section 15370 of the CEQA Guidelines.

Based on review of Project materials, aerial photography and observation of the site from public roadways, the Project site supports unnamed tributaries to the Cosumnes River and its associated riparian habitat. CDFW recommends that the EIR fully identify the Project's potential impacts to the stream and/or its associated vegetation and wetlands.

CHEMICAL USE

Rodenticides that control small mammal populations would also reduce available burrows, making the habitat no longer suitable for burrowing owl and other sensitive wildlife species. Lack of underground refugia could result in increase exposure to predators, heat, and other elements. The use of rodenticides may also result in impact to non-target wildlife. Anticoagulant rodenticides, including diphacinone, have been detected in the majority of predators and scavengers in California (Hosea 2000), including bobcats (*Lynx rufus*) (Serieys et al.) and raptors (Kelley et al. 2015). Since animals dependent on small mammals for habitat and for food sources are present in the Natomas Basin, CDFW recommends the project avoid use of chemical rodenticides and if they cannot be avoided, then the EIR should analyze the impact of their use to the ecosystem over the life of the Project.

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database, which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the CNDDDB. The CNNDDB field survey form can be found at the following link:

<https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>. The completed form can be submitted online or mailed electronically to CNDDDB at the following email address: CNDDDB@wildlife.ca.gov.

Airport South Industrial Park
April 4, 2022
Page 13 of 14

FILING FEES

The Project, as proposed, would have an effect on fish and wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the City and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code § 711.4; Pub. Resources Code, § 21089.)


CONCLUSION

Pursuant to Public Resources Code sections 21092 and 21092.2, CDFW requests written notification of proposed actions and pending decisions regarding the Project. Written notifications shall be directed to: California Department of Fish and Wildlife North Central Region, 1701 Nimbus Road, Rancho Cordova, CA 95670.

CDFW appreciates the opportunity to comment on the Notice of Preparation of the EIR for the Airport South Industrial Park and recommends that the City address CDFW's comments and concerns in the forthcoming EIR. CDFW personnel are available for consultation regarding biological resources and strategies to minimize impacts.

If you have any questions regarding the comments provided in this letter or wish to schedule a meeting and/or site visit, please contact Dylan Wood, Environmental Scientist at (916) 358-2384 or dylan.a.wood@wildlife.ca.gov.

Sincerely,

DocuSigned by:

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Kelley Barker
Environmental Program Manager

ec: Tanya Sheya, Senior Environmental Scientist (Supervisory)
Dylan Wood, Environmental Scientist
CEQACommentLetters
Department of Fish and Wildlife

Office of Planning and Research, State Clearinghouse, Sacramento

Airport South Industrial Park
April 4, 2022
Page 14 of 14

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Ann Edwards
County Executive



Michael J. Penrose
Interim Deputy County Executive
Community Services Agency

David Defanti, Director
Community Development
Department

County of Sacramento

April 4, 2022

TO: Scott Johnson, Senior Planner
City of Sacramento Community Development Department
srjohnson@cityofsacramento.org

Jose C. Henriquez, Executive Officer
Sacramento Local Agency Formation Commission
henriquezj@saclafco.org

FROM: Todd Smith, Principal Planner
Planning and Environmental Review Division

**SUBJECT: AIRPORT SOUTH INDUSTRIAL PROJECT
NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT
REPORT (PROJECT P21-017)**

Dear Mr. Johnson:

On March 4, 2022, the County of Sacramento Community Development Department received the Notice of Preparation for the Airport South Industrial Project. The proposed project would include development of an industrial park, that would allow for construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres. Each industrial building would include associated parking areas to accommodate vehicles and/or trailers, as well as bio-detention areas to capture stormwater runoff from the newly constructed impervious surfaces.

The proposed project would require approval of the following entitlements: Sacramento County LAFCo approval of a SOIA (including a related Municipal Services Review) and Reorganization (annexation and related detachments); and City of Sacramento approval of a Prezone, General Plan Amendment (GPA), Tentative Master Parcel Map, Development Agreement (DA) and Planned Unit Development (PUD).

The County of Sacramento's comments below are preliminary in nature and respond to the information available at this time. The Planning and Environmental Review Division presents these comments representing multiple County departments, and original correspondence from those departments are included as Attachment 1.

Sacramento County Department of Transportation

The County of Sacramento, Department of Transportation (SacDOT) has reviewed the NOP for the Airport South Industrial Project's EIR. We anticipate a project of this size may adversely affect County facilities. Since this project is proposed in Sacramento County, SacDOT requests a local transportation analysis (LTA) study the following facilities, in accordance with the latest version of the County's Transportation Analysis Guidelines (TAG):

Intersection Analysis:

1. Power Line Road at Garden Highway
2. Power Line Road at Del Paso Road
3. Power Line Road at Bayou Way
4. Power Line Road at Bear Paw Drive (Road B)
5. Power Line Road at West Elkhorn Boulevard
6. Metro Air Parkway at Pacific Gateway Drive (Road K)
7. Metro Air Parkway at I-5 NB Ramps
8. Metro Air Parkway at I-5 SB Ramps
9. Metro Air Parkway at Meister Way
10. Metro Air Parkway at West Elkhorn Boulevard
11. West Elkhorn Boulevard at Bear Paw Drive (Road B)
12. West Elkhorn Boulevard at Badiee Drive
13. West Elkhorn Blvd at Ameri Drive (Road H)
14. West Elkhorn Boulevard at Lone Tree Road
15. West Elkhorn Boulevard at Lakestone Drive
16. West Elkhorn Boulevard at Wave Street
17. West Elkhorn Boulevard at Waterside Avenue
18. West Elkhorn Boulevard at SR-99 SB Ramps
19. West Elkhorn Boulevard at SR-99 NB Ramps
20. Airport Blvd at Bayou Way

Roadway Segment Analysis:

1. Power Line Road from Garden Highway to Del Paso Road
2. Power Line Road from Del Paso Road to Bayou Way
3. Power Line Road from Bayou Way to Bear Paw Drive (Road B)
4. Power Line Road from Bear Paw Drive (Road B) to Pacific Gateway Drive
5. Power Line Road from Pacific Gateway Drive to West Elkhorn Boulevard
6. Metro Air Parkway from I-5 SB Ramps to I-5 NB Ramps
7. Metro Air Parkway from I-5 NB Ramps to Meister Way
8. Metro Air Parkway from I-5 NB Ramps to Pacific Gateway Drive (Road K)
9. Metro Air Parkway from Pacific Gateway Drive (Road K) to Meister Way
10. Metro Air Parkway from Meister Way to West Elkhorn Boulevard
11. Del Paso Road from Power Line Road to Hovnanian Drive
12. Bayou Way from Airport Boulevard to Power Line Road
13. Bayou Way from Power Line Road to Metro Air Parkway
14. Bayou Rd from Metro Air Parkway to City Limit
15. Airport Boulevard from Bayou Way to I-5 SB Ramps
16. Airport Boulevard from I-5 SB Ramps to I-5 NB Ramps
17. Pacific Gateway Drive from Power Line Rd to Metro Air Parkway

Rural Roadway Functionality Analysis:

1. Power Line Road from Garden Highway to Del Paso Road
2. Power Line Road from Del Paso Road to I-5 SB Ramps
3. Bayou Way from Airport Boulevard to Power Line Road
4. Garden Highway from Power Line Road to Radio Road
5. Garden Highway from Radio Road to San Juan Road
6. Garden Highway from San Juan Road to Sacramento City Limit
7. Del Paso Road from Power Line Rd to Sacramento City Limit
8. Power Line Road from Del Paso Rd to I-5 Overcrossing

Shared Facilities

Metro Air Park (MAP) SPA is conditioned to improve facilities offsite of their plan area. Since the proposed project is adjacent to MAP, and its traffic shed covers similar facilities inside Sacramento County, SacDOT will need Airport South Industrial Project to determine their fair share and construction obligations of the facilities listed below:

- Intersections:
 - Airport Blvd at Bayou Way
 - Power Line Road at Del Paso Road
 - Power Line Road at Bayou Way
- Segments
 - Del Paso Rd from Power Line Road to City of Sacramento Limits
 - Power Line Road from Del Paso Rd to I-5 Overcrossing
- I-5
 - I-5 from SR-99 to Metro Air Parkway
 - Metro Air Parkway Interchange

Pavement Analysis and Truck Turns:

SacDOT expects this project to have a similar land use as the Metro Air Park SPA, which generate higher than average truck traffic. Therefore, when designing and estimating roadway cross sections, the Sacramento County Improvement Standard's Traffic Index (TI) based on roadway classification should not be used. Instead, the project will need to calculate a TI for the roadways based on its expected heavy vehicle traffic. As an advisory, within MAP the County requires a minimum TI of 10.0 on all collector roadways, 12.0 on all arterials and thoroughfares, and accommodation of STAA truck turns on all roadways.

Please coordinate with SacDOT (Gary Gasperi, gasperig@saccounty.net, 916-876-4108) for any impacts identified inside Sacramento County by identifying appropriate mitigations such as constructing roadway/intersection improvements and establishing a project-specific reciprocal funding agreement between the City of Sacramento and Sacramento County.

County Engineering, Special Districts Section

The Special Districts Section proposes the following condition be imposed on the subject project in order to mitigate the impacts of the proposed project on surrounding public facilities. We further request that the environmental analysis analyze these impacts and in particular, reference and consider the public infrastructure identified in the applicable County of Sacramento Public Facilities Master Plan as serving the proposed project area.

Please contact Special Districts Manager Dorothy Kodani (kodanid@saccounty.net, 916-875-5366) if you have any questions regarding these comments.

Proposed Condition of Approval:

All property within the subject project shall contribute their fair share for the following infrastructure identified in the County of Sacramento's Metro Air Park Special Planning Area Public Facilities Financing Plan and described in the 2020 Supplement to the Public Facilities Master Plan at the time prior to the filing of final maps or issuance of building permits, whichever occurs first:

Roadways: *All requirements will be in conjunction with any requirements and conditions recommended by the County of Sacramento Department of Transportation, including but not limited to the communication from Gary Gasperi dated March 28, 2022.*

1. Project DPR-1: Del Paso Road Surface Improvements Phase 6 - Power Line Road to City Limits (7400 lf – two lanes overlay and pavement construction)
2. Project PLR-3: Power Line Road Surface Improvements Phase 6 - Del Paso Road to Interstate 5 Overcrossing (5400 lf - two lanes overlay and pavement construction)
3. Project SBR-2: South Bayou Road/Airport Boulevard Intersection (surface improvements – Phase 6)

Freeways: *All requirements will be in conjunction with any requirements and conditions recommended by the County of Sacramento Department of Transportation, including but not limited to the communication from Gary Gasperi dated March 28, 2022.*

4. Project I5-2b: Interstate 5/Metro Air Parkway Interchange Auxiliary Lanes (SR 99 to Metro Air Parkway (South Side) Stage Two Phase 2b)
5. Project I5-3: Interstate 5 Main Line Lanes Phase 5
6. Project I5-4: Interstate 5/Metro Air Parkway Interchange – Final Stage Phase 6

Off-Site Drainage

7. Project RD1000-2: Power Line Road Culvert (Off Site Drainage Improvements Phase 2)
8. Project RD1000-3: Canal Reach 4/5 Culverts (Off Site Drainage Improvements Phase 2)
9. Project RD1000-7: Off-site Right-of-Way and Reach No. 8 (Off Site Drainage Improvements Phase 3)

Fire

10. Project FS-1: Fire Station Facilities Phase C (Fire Station Construction)
11. Project FS-2: Fire Station Facilities Phase 1A (Land Acquisition)

Transit: *Fair share amounts to be to the satisfaction of the Sacramento Regional Transit District.*

12. Project T-1: Sacramento Regional Transit Light Rail Right-of-Way Acquisition (Light Rail Contribution Phase 1AA – Power Line Road to Lone Tree Road)

13. Project T-2: Sacramento Regional Transit Light Rail Contribution Phase 6 – Power Line Road to Lone Tree Road (Construction and Rolling Stock Contribution)
14. Project T-3: Sacramento Regional Transit Light Rail Station Site Acquisition (Light Rail Contribution Phase 1AA – Power Line Road to Lone Tree Road)

Contact the County of Sacramento Department of Community Development, County Engineering Division to determine the applicable fair share contribution to be paid prior to the filing of final maps or issuance of building permits, whichever occurs first.

Growth Inducement

CEQA recognizes that the extension of urban infrastructure to a site or area may lead to future development in nearby areas that, as a result of the infrastructure extension, may now feasibly extend and connect, thus leading to additional new development. The proposed Airport South Industrial Project would remove barriers to development and bring development to an area that has not been included in the long-range plans approved by the County or the City. The project is not anticipated in the Sacramento Area Council Of Governments' Sustainable Communities Strategy. In addition to analyzing the effects of the project itself, the EIR should carefully evaluate these growth inducing effects. For example, the project would require at least the extension of urban utilities to the site, which lacks sufficient water, wastewater, storm water and energy infrastructure to support the proposed development. CEQA recognizes that the extension of urban infrastructure to a site or area may lead to future development in nearby areas that, as a result of the infrastructure extension, may now feasibly extend and connect, thus leading to additional new development. This should be analyzed in the EIR.

Habitat Conservation Plans

While Sacramento County is not a party to the Natomas Basin Habitat Conservation Plan (NBHCP), the County has substantial interest in the continued viability of the Metro Air Park Habitat Conservation Plan (MAP HCP). Sacramento County has invested significant resources in Metro Air Park, including but not limited to construction of the recently completed Metro Air Parkway interchange. Activities that could affect the success of the conservation strategy established in the NBHCP and MAP HCP should be considered in the EIR. In the Natomas Basin, any future development not covered by an existing Habitat Conservation Plan (HCP) must obtain take authorization under the Endangered Species Act (ESA). The NBHCP along with the MAP HCP require that a total of 8,750 acres of mitigation be located within Natomas Basin and the mitigation must adhere to specific requirements of the HCP. The HCPs provide a conservation strategy for the protection of 22 covered species, and their implementation has been underway for over 20 years.

As City of Sacramento staff is aware, the County is considering significant land use development proposals in the Natomas Basin. The potential for additional urban development beyond the current City of Sacramento boundaries and approved Metro Air Park in unincorporated Natomas has been the subject of much discussion over the last three decades. Sacramento County, with the concurrence and cooperation of City of Sacramento management, took the lead in responding to requests from development interests to pursue potential development starting around 2008. The Sacramento County 2030 General Plan was approved in 2011 and includes an overlay on the Land Use Diagram recognizing the

Natomas Joint Vision area as a location where Sacramento County would study potential urbanization. The related General Plan Policy LU-114 states:

“It is the policy of Sacramento County that development and open space preservation in the Natomas Joint Vision Overlay Area occur in a comprehensive, responsible and cohesive manner that best addresses land use, economic development and environmental opportunities and challenges in Natomas.”

Applications from the various landowners led to the Board of Supervisors’ formal initiation of the master plan process for Grandpark Specific Plan in March 2016 and the Upper Westside Specific Plan in February 2019. In initiating this master plan process, Sacramento County staff and the applicants for both Grandpark and Upper Westside were fully aware of the existing NBHCP and MAPHCP requirements that at the end of the 50-year permitting period, there be one preserve block of at least 2,500 contiguous acres and that the remaining preserves be in blocks of at least 400 acres and be connected by water. The preserves must be 50% in rice cultivation, 25% in managed marsh habitat and 25% in upland Swainson’s hawk habitat. Both HCPs assume that above and beyond the mitigation lands and in-perpetuity preserves, an additional 15,095 acres of land will remain committed to agriculture in the basin and that 12,193 acres of exempt, already approved/entitled development exists.

Sacramento County is also cognizant of the fact that development in the Natomas Basin has been met with challenges from environmental groups due to the presence of numerous threatened, endangered or special status species. Two of the species of greatest concern are the giant garter snake and the Swainson’s hawk. There have been several lawsuits filed over past environmental approvals associated with the NBHCP and the MAPHCP. A final ruling by United States District Judge David F. Levi on September 7, 2005 in the National Wildlife Federation, et al., v. Gale Norton case, declared the HCPs valid and cleared the way for development. Among other things, in the National Wildlife Federation case the environmental groups unsuccessfully argued that because Sacramento County was not a signatory to the HCPs, the HCPs were flawed because they relied on land in unincorporated Sacramento County for future mitigation. However, with respect to the issues of potential future growth in Sacramento County, Judge Levi ruled as follows:

“The NBHCP and Biological Opinion (BiOp) utilized by the Secretary of the Interior and United States Fish and Wildlife Service do assume that development in the basin will be limited to the 17,500 acres [15,517 acres under the NBHCP and 1,983 acres from the previously approved MAPHCP to total 17,500 acres cumulatively] in the permit areas and relies on that assumption in concluding that sufficient habitat will remain for the covered species. This assumption is based on the current land use plans of Sacramento County. The NBHCP, BiOp, and EIR/EIS also conclude that because any future development in the Basin not covered by the HCP and ITPs [Incidental Take Permit allowing for “take” of an endangered species] would likely result in injury to listed species, any future development in the Basin would require new federal approvals. Any such approvals would in turn require a new HCP and ITP for the particular project, and could also lead to revision of the existing NBHCP, were the additional development to exceed assumed limits.”

Judge Levi went on to say:

“The NBHCP anticipates that development by the City and Sutter will be limited to 15,517 acres – 8,050 acres within the City [of Sacramento] and 7,467 acres in Sutter County – and provides that approval of any development beyond this limit – whether by the City and Sutter or by other entities – will trigger reevaluation and possible amendment of the plan, and could result in suspension or revocation of the City and Sutter permits.”

With regard to the City/County Natomas Joint Vision, which plaintiffs claimed would fatally undermine the NBHCP, Judge Levi ruled as follows:

“The Service, and the court, are entitled to assume at this point that future development will not be permitted if sufficient mitigation land is unavailable and the development will result in jeopardy.”

The judge footnoted the above sentence with the following statement:

“The court notes, however, that the Service and those seeking an ITP in the future will face an uphill battle if they attempt to argue that additional development in the Basin beyond 17,500 acres will not result in jeopardy. The NBHCP, BiOp, EIR/EIS, and Findings and Recommendations are all predicated on the assumption that development in the Basin will be limited to 17,500 acres and that the remaining lands will remain in agricultural use.”

Sacramento County Planning staff recognizes that any new development in the Natomas Basin above the 17,500 acres already approved and permitted by the Natomas Basin and Metro Air Park HCPs will require careful coordination and consideration of existing approved developments, their mitigation strategies, and the regional conservation context. Sacramento County has no intention of jeopardizing the existing HCPs or ITPs in Natomas, and will include full analysis of the cumulative impacts of the proposed Grandpark and Upper Westside projects as well as other reasonably foreseeable development projects in the Environmental Impact Reports for both projects. Such analysis will also include an evaluation of each project’s proposed conservation strategy and the potential effects on the viability of the existing HCPs in the context of seeking additional development within the Sacramento County unincorporated portion of the Basin as contemplated in the County’s 2011 General Plan. To that end, the County of Sacramento requests that the Airport South Industrial Project EIR include an analysis of:

- a. Location and quality of proposed mitigation sites (including those within the Natomas Basin), including an analysis of the effect of market competition and price increases resulting from the UWSP project and its effect on the HCP conservation strategy;
- b. Hydrological connectivity to existing preserves in the Basin;
- c. Effects of a reduction in the inventory (supply) of land available for mitigation, while also increasing the demand for mitigation land, driving up the price of mitigation for the existing permit holders;
- d. Appropriate mitigation ratio assuming development of the plan, which would appear to substantially change the assumptions that supported a 0.5: 1 ratio for the Metro Air Park HCP and the NBHCP, and a 1:1 ratio for Greenbriar.

Agriculture, Prime Farmland, and Open Space

The Sacramento County General Plan land use designation for a majority of the project area is Agricultural Cropland. This designation represents agricultural lands most suitable for intensive agricultural activities, including row crops, tree crops, irrigated grains, and dairies. One single-family dwelling unit per 40 acres is also considered suitable in this designation. The project site is also designated as Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance on the Department of Conservation's 2018 Important Farmland Map.

The Airport South Industrial Project EIR should include an evaluation of impacts to agricultural land, as it appears the proposed project would not seek to preserve the existing agricultural land or agricultural uses. Continued agricultural uses, farmland and open space are a critical component to the success of the NBHCP and MAP HCP conservation strategy. The EIR should include an analysis that not only addresses impacts to agricultural lands but also how this potential loss impacts the ability for the NBHCP and MAP HCP requirements to be met by the City of Sacramento, Sutter County and the other parties.

Flood Control and Floodplain Management

The original Natomas Basin levees were designed to handle the historical "flood of record" which was the 1907 and 1909 floods of the Sacramento River. In 1937, the system accommodated a large flood with only minor problems. In 1955, an even larger flood hit the Central Valley and the Natomas levees held, but minor damage to the levees occurred near the Sacramento/Sutter County line. As a result, the U.S. Army Corps of Engineers (USACE) raised the Natomas Cross Canal and Pleasant Grove Creek Canal levees by two to three feet in anticipation of even larger future events. The system remained in generally the same condition until 1986 when a new "flood of record" occurred causing significant seepage in Natomas levees; however, early emergency response by RD1000 and the USACE prevented the potentially catastrophic failure. As a result of the near failure, the levee system surrounding Natomas was de-certified and further development was halted.

The Sacramento Area Flood Control Agency (SAFCA) was formed in 1989 to address the vulnerability highlighted by the 1986 flood. The City of Sacramento, Sacramento County, Sutter County, American River Flood Control District, Sacramento County Water Agency, Sutter County Water Agency and RD1000 created SAFCA through a Joint Exercise of Powers Agreement to provide the Sacramento region with increased flood protection along the American and Sacramento rivers.

A system of repairs was initiated in the early 1990s on both the Sacramento River and Natomas East Main Drainage Canal. Work along the Sacramento River was completed by the USACE (Sacramento Urban Project) while the work on the Natomas East Main Drainage Canal was done by SAFCA (North Area Local Project). As a result, the levees were re-certified in 1997 and development began again.

In January 1997 a flood similar in size to the 1986 flood struck the area. The improved system held but a number of other levees in California failed. Levee safety concerns began to emerge and following an analysis of the Natomas levees, they were again de-certified in 2003, stopping development for a second time.

To address the levee concerns within the Natomas Basin, SAFCA, the State of California, and the USACE have undertaken the Natomas Levee Improvement Program (NLIP) and the Natomas Basin Project (NBP) to enhance flood protection in the Natomas Basin and to bring the area up to a 200-year level of flood protection known as Urban Level of Protection or ULOP. According to the latest report ULOP report from SAFCA (Attachment 2), the Natomas levee improvements will be completed by 2025. It is important to note that the SAFCA analysis is updated annually to determine if improvements are on track and sufficient funding is still available.

These ongoing improvements have resulted in re-mapping much of the Natomas Basin from Special Flood Hazard Area Zone A (a 100-year flood zone where no flood depths have been determined) to Zone A-99 on June 16, 2015. Zone A-99 means that while the levees still do not provide a 100-year level of flood protection, there is a project underway to improve to that level. This does not define the levees as safe; it simply rewards a community for making progress. Construction in Natomas, under Zone A-99, is allowed if the local jurisdiction finds the area to be "reasonably safe from flooding", per Code of Federal Regulations 44CFR60.3(a)(3).

On May 19, 2015 the Board of Supervisors (Board) approved Resolution 2015-0392 (Attachment 3) making a "reasonably safe from flooding" finding for:

- Rebuilding fire damaged structures and those displaced by the levee projects
- Development and construction on entitled lots
- New entitlements within current zoning

New developments in Sacramento County are not covered by the existing findings. Each would require either a new finding that they are "reasonably safe from flooding" or the completion of the levee improvements and re-mapping out of the A-99 zone.

The Airport South Industrial Project EIR should include an analysis of flood control and floodplain management for the greater Natomas Basin floodplain as well as the onsite floodplain. This analysis should address the cumulative land use context and take into account other projects under consideration by Sacramento County.

Airport Compatibility

The Airport South Industrial Project is located proximate to Sacramento International Airport and in ALUC Referral Area 1, and must be evaluated for consistency with the Sacramento International Airport Land Use Compatibility Plan (<https://www.sacog.org/post/sacramento-county>). The County is in receipt of and concurs with the comments submitted by SACOG via email on April 1, 2022.

In addition, it is noted that the project has identified 11 acres/61,000 sq. feet of hotel and hospitality use. While the comments submitted by SACOG clearly state the likely limitations applicable to the hospitality land uses as proposed, please also understand that most permanent residential land uses would likely be conditionally restricted to an equal or greater degree or prohibited under the Sacramento International Airport Land Use Compatibility Plan.

It is also noted that an unspecified amount of land within the project area will be dedicated to "bio-detention areas to capture storm water runoff". Water detention/retention basins

in and around airports have the potential to serve as attractants to wildlife species hazardous to aircraft operations. Full consideration should be given to all recommendations and guidance as outlined in [FAA Advisory Circular 150/5200-33C](#), "Hazardous Wildlife Attractants on or near Airports". Specifically, as the entire project area lies within the FAA's separation distances for airports with turbine powered aircraft (10,000 feet Perimeter A; 5 mile Perimeter C), "hazardous wildlife attractants should be avoided, eliminated or mitigated". The applicant is urged to give specific attention to how the project will accommodate the stormwater runoff requirements and at the same time avoid, eliminate or mitigate hazardous wildlife attractants associated with these features.

The project is located approximately 4,800 feet from the south end of runway 17L/35R at Sacramento International Airport at its closest point. That runway is supported by a precision navigational landing aid: an SA CAT II Instrument Landing System. In addition to the normal airspace compatibility criteria that will need to be evaluated by the FAA per Federal Aviation Regulations Part 77, it is noted that specific characteristics such as building height, orientation and construction materials can affect navigational radio signal propagation. Therefore, it is advisable to use the most precise survey data available when submitting project elements for FAA airspace review.

Lastly, though solar is not specifically mentioned, please note that due to the proximity and orientation of the airport's runways and associated flightpaths to the project, a Solar Glare Hazard Analysis Tool (SGHAT) analysis should be performed for any project element that incorporates solar panels and submitted to the FAA as part of the aforementioned airspace analyses.

Conclusion

Thank you for the opportunity to comment on the NOP. We request that the NOP comments be included in the EIR, and that the EIR include corresponding responses in its analysis of the topics raised herein. If you have questions regarding these comments, please contact staff identified above.

Sincerely,



Todd Smith
Principal Planner

cc: David Defanti, Director, Community Development Department
Bob Davison, County Engineer
Dorothy Kodani, Manager, Special Districts Section
Ron Vicari, Director, Department of Transportation
Matt Darrow, Division Chief, Department of Transportation
Troy Givans, Director, Economic Development
Michael Peterson, Director, Department of Water Resources

Airport South Industrial Project
Comments on Notice of Preparation of EIR
Page 11 of 11

Attachment 2 – SAFCA 2021 Annual Progress Report

Attachment 3 – Sacramento County Board of Supervisors Resolution #2015-0392



SACRAMENTO COUNTY
WATER AGENCY

Date: March 28, 2022

To: Scott Johnson
City of Sacramento Community Development Department

From: Esther Kinyua – Associate Civil Engineer
Sacramento County Water Agency

Subject: SCWA Comments on Notice of Preparation (NOP) of an Environmental Impact Report (EIR) from City of Sacramento for Airport South Industrial Project (P21-017)

The Sacramento County Water Agency (SCWA) has reviewed the subject document and has the following comments:

1. The area included does not fall within the SCWA service area for water supply. SCWA has no comments at this point.

Michael J. Penrose
Interim Deputy County Executive

Department of Water Resources
Michael L. Peterson, Director



Ann Edwards
County Executive

County of Sacramento

Date: 3/24/2022

To: Scott Johnson, Senior Planner
City of Sacramento Community Development Department
300 Richards Blvd., Third Floor
Sacramento, CA 95811
Telephone: (916)808-5842
Email: srjohnson@cityof sacramento.org

**RE: NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT REPORT AND
SCOPING MEETING FOR THE AIRPORT SOUTH INDUSTRIAL PROJECT (P21-017)**

The Metro Air Park Special Planning Area Public Facilities Financing Plan includes projects cost for improvements to the Reclamation District 1000 (RD-1000) canal Reach Number 8, which drains to the RD-1000 West Drainage Canal. Reach Number 8 intersects the subject project site north to south and future development of the project site may be impacted by the canal improvements.

Please feel free to call if you have any questions.

Sincerely,

Michael Durkee, P.E.
Drainage Planning and Development Section
durkeem@saccounty.net
(Direct) (916) 874 - 8812

Ann Edwards
County Executive



Michael J. Penrose
Interim Deputy County Executive
Community Services Agency

Dave Defanti, Director
Community Development
Department

County of Sacramento

April 1, 2022

TO: Todd Smith
Planning and Environmental Review Division

FROM: Dorothy Kodani *DK*
Special Districts Section, County Engineering Division

**SUBJECT: AIRPORT SOUTH INDUSTRIAL PROJECT
NOTICE OF PREPARATION OF ENVIRONMENTAL IMPACT REPORT
COUNTY ENGINEERING DIVISION COMMENTS**

The Special Districts Section proposes the following condition be imposed on the subject project in order to mitigate the impacts of the proposed project on surrounding public facilities. We further request that the environmental analysis analyze these impacts and in particular, reference and consider the public infrastructure identified in the applicable County of Sacramento Public Facilities Master Plan as serving the proposed project area.

Proposed Condition of Approval:

All property within the subject project shall contribute their fair share for the following infrastructure identified in the County of Sacramento's Metro Air Park Special Planning Area Public Facilities Financing Plan and described in the 2020 Supplement to the Public Facilities Master Plan at the time prior to the filing of final maps or issuance of building permits, whichever occurs first:

Roadways *All requirements will be in conjunction with any requirements and conditions recommended by the County of Sacramento Department of Transportation, including but not limited to the communication from Gary Gasperi dated March 28, 2022.*

1. Project DPR-1: Del Paso Road Surface Improvements Phase 6 - Power Line Road to City Limits (7400 lf - two lanes overlay and pavement construction)
2. Project PLR-3: Power Line Road Surface Improvements Phase 6 - Del Paso Road to Interstate 5 Overcrossing (5400 lf - two lanes overlay and pavement construction)
3. Project SBR-2: South Bayou Road/Airport Boulevard Intersection (surface improvements - Phase 6)

Freeways *All requirements will be in conjunction with any requirements and conditions recommended by the County of Sacramento Department of Transportation, including but not limited to the communication from Gary Gasperi dated March 28, 2022.*

4. Project I5-2b: Interstate 5/Metro Air Parkway Interchange Auxiliary Lanes (SR 99 to Metro Air Parkway (South Side) Stage Two Phase 2b)
5. Project I5-3: Interstate 5 Main Line Lanes Phase 5
6. Project I5-4: Interstate 5/Metro Air Parkway Interchange – Final Stage Phase 6

Off-Site Drainage

7. Project RD1000-2: Power Line Road Culvert (Off Site Drainage Improvements Phase 2)
8. Project RD1000-3: Canal Reach 4/5 Culverts (Off Site Drainage Improvements Phase 2)
9. Project RD1000-7: Off-site Right-of-Way and Reach No. 8 (Off Site Drainage Improvements Phase 3)

Fire

10. Project FS-1: Fire Station Facilities Phase C (Fire Station Construction)
11. Project FS-2: Fire Station Facilities Phase 1A (Land Acquisition)

Transit *Fair share amounts to be to the satisfaction of the Sacramento Regional Transit District.*

12. Project T-1: Sacramento Regional Transit Light Rail Right-of-Way Acquisition (Light Rail Contribution Phase 1AA – Power Line Road to Lone Tree Road)
13. Project T-2: Sacramento Regional Transit Light Rail Contribution Phase 6 – Power Line Road to Lone Tree Road (Construction and Rolling Stock Contribution)
14. Project T-3: Sacramento Regional Transit Light Rail Station Site Acquisition (Light Rail Contribution Phase 1AA – Power Line Road to Lone Tree Road)

Contact the County of Sacramento Department of Community Development, County Engineering Division to determine the applicable fair share contribution to be paid prior to the filing of final maps or issuance of building permits, whichever occurs first.

If you require additional information, I can be reached at kodanid @ SacCounty.net.



County of Sacramento

March 28, 2022

Scott Johnson
City of Sacramento
Community Development Department
Environmental Planning Services
300 Richards Blvd., 3rd Floor
Sacramento, CA 95811

**SUBJECT: COMMENTS ON AIRPORT SOUTH INDUSTRIAL PROJECT (P21-017)
NOITCE OF PREPARATION OF EIR**

Mr. Johnson:

The County of Sacramento, Department of Transportation (SacDOT) has reviewed the NOP for the Airport South Industrial Project's EIR. We anticipate a project of this size may adversely affect County facilities. Since this project is proposed in Sacramento County, SacDOT requests a local transportation analysis (LTA) study the following facilities, in accordance with the latest version of the County's Transportation Analysis Guidelines (TAG):

Intersection Analysis:

1. Power Line Road at Garden Highway
2. Power Line Road at Del Paso Road
3. Power Line Road at Bayou Way
4. Power Line Road at Bear Paw Drive (Road B)
5. Power Line Road at West Elkhorn Boulevard
6. Metro Air Parkway at Pacific Gateway Drive (Road K)
7. Metro Air Parkway at I-5 NB Ramps
8. Metro Air Parkway at I-5 SB Ramps
9. Metro Air Parkway at Meister Way
10. Metro Air Parkway at West Elkhorn Boulevard
11. West Elkhorn Boulevard at Bear Paw Drive (Road B)
12. West Elkhorn Boulevard at Badiee Drive
13. West Elkhorn Blvd at Ameri Drive (Road H)
14. West Elkhorn Boulevard at Lone Tree Road
15. West Elkhorn Boulevard at Lakestone Drive
16. West Elkhorn Boulevard at Wave Street
17. West Elkhorn Boulevard at Waterside Avenue
18. West Elkhorn Boulevard at SR-99 SB Ramps
19. West Elkhorn Boulevard at SR-99 NB Ramps
20. Airport Blvd at Bayou Way

Roadway Segment Analysis:

1. Power Line Road from Garden Highway to Del Paso Road
2. Power Line Road from Del Paso Road to Bayou Way
3. Power Line Road from Bayou Way to Bear Paw Drive (Road B)
4. Power Line Road from Bear Paw Drive (Road B) to Pacific Gateway Drive
5. Power Line Road from Pacific Gateway Drive to West Elkhorn Boulevard
6. Metro Air Parkway from I-5 SB Ramps to I-5 NB Ramps
7. Metro Air Parkway from I-5 NB Ramps to Meister Way
8. Metro Air Parkway from I-5 NB Ramps to Pacific Gateway Drive (Road K)
9. Metro Air Parkway from Pacific Gateway Drive (Road K) to Meister Way
10. Metro Air Parkway from Meister Way to West Elkhorn Boulevard
11. Del Paso Road from Power Line Road to Hovnanian Drive
12. Bayou Way from Airport Boulevard to Power Line Road
13. Bayou Way from Power Line Road to Metro Air Parkway
14. Bayou Rd from Metro Air Parkway to City Limit
15. Airport Boulevard from Bayou Way to I-5 SB Ramps
16. Airport Boulevard from I-5 SB Ramps to I-5 NB Ramps
17. Pacific Gateway Drive from Power Line Rd to Metro Air Parkway

Rural Roadway Functionality Analysis:

1. Power Line Road from Garden Highway to Del Paso Road
2. Power Line Road from Del Paso Road to I-5 SB Ramps
3. Bayou Way from Airport Boulevard to Power Line Road
4. Garden Highway from Power Line Road to Radio Road
5. Garden Highway from Radio Road to San Juan Road
6. Garden Highway from San Juan Road to Sacramento City Limit
7. Del Paso Road from Power Line Rd to Sacramento City Limit
8. Power Line Road from Del Paso Rd to I-5 Overcrossing

Shared Facilities

Metro Air Park (MAP) SPA is conditioned to improve facilities offsite of their plan area. Since the proposed project is adjacent to MAP, and its traffic shed covers similar facilities inside Sacramento County, SacDOT will need Airport South Industrial Project to determine their fair share and construction obligations of the facilities listed below:

- Intersections:
 - Airport Blvd at Bayou Way
 - Power Line Road at Del Paso Road
 - Power Line Road at Bayou Way
- Segments
 - Del Paso Rd from Power Line Road to City of Sacramento Limits
 - Power Line Road from Del Paso Rd to I-5 Overcrossing
- I-5
 - I-5 from SR-99 to Metro Air Parkway
 - Metro Air Parkway Interchange

Pavement Analysis and Truck Turns:

SacDOT expects this project to have a similar land use as the Metro Air Park SPA, which generate higher than average truck traffic. Therefore, when designing and estimating roadway cross sections, the Sacramento County Improvement Standard's Traffic Index (TI) based on roadway classification should not be used. Instead, the project will need to calculate a TI for the roadways based on its expected heavy vehicle traffic. As an advisory, within MAP the County requires a minimum TI of 10.0 on all collector roadways, 12.0 on all arterials and thoroughfares, and accommodation of STAA truck turns on all roadways.

Please coordinate with SacDOT for any impacts identified inside Sacramento County by identifying appropriate mitigations such as constructing roadway/intersection improvements and establishing a project-specific reciprocal funding agreement between the City of Sacramento and Sacramento County.

Should you have any questions, please feel free to contact me at 916-876-4108.

Sincerely,

Gary Gasperi, PE
Associate Civil Engineer
Department of Transportation

GG

2021

Urban Level of Flood Protection

Annual Report

For Board Approval

July 2021



1007 7th St, 7th Floor
Sacramento, CA 95814

(916) 874-7606

TABLE OF CONTENTS

1. Introduction 2

2. Planned Scope, Schedule, and Cost..... 2

 2.1 Project Scope 2

 2.2 Schedule 6

 2.3 Costs, Revenues, and Appropriations..... 7

3. Construction of Critical Features 8

4. Delays 10

5. References for Data Used..... 10

FIGURES

Figure 1: SAFCA Projects 5

TABLES

Table 1: Timeline for Projects 6

Table 2: Planned Expenditures (\$millions, all sources)..... 7

Table 3: Cumulative Planned Expenditures, Actual Appropriations and Actual Expenditures
Through 2019-2020 (\$millions, all sources) 8

1. INTRODUCTION

California Government Code (CGC) Section 65007(a)(5) requires local agencies to “annually report to the Central Valley Flood Protection Board on the efforts in working toward completion of the flood protection system.” State requirements are further described in the Urban Level of Flood Protection Criteria (ULOP Criteria; DWR, 2013).

This report describes SAFCA’s efforts in improving the regional flood protection system over the fiscal year ending on June 30, 2021. Section 5 of the Sacramento Area Flood Control Agency (SAFCA) Final Urban Level of Flood Protection Plan and Adequate Progress Baseline Report (ULOP Plan) noted that the majority of funding for SAFCA’s projects comes from State and Federal agencies over which SAFCA has no control (SAFCA, 2016).

This annual report only addresses State Plan of Flood Control (SPFC) facilities. The local land use agencies, acting as floodplain managers, must consider this plan with their own data to determine whether residual risks, including interior drainage and flood sources not managed by SPFC facilities, affect development projects to such a degree that the projects would be subject to flood protection findings under state law. This report is not intended to be a substitute for the independent judgment of the local agencies in adopting their findings.

2. PLANNED SCOPE, SCHEDULE, AND COST

CGC Section 65007(a)(1) requires the local flood management agency to report “the total project scope, schedule, and cost” of meeting ULOP with the agency’s flood protection system. This information was detailed in the ULOP Plan and is summarized here.

2.1 Project Scope

The following projects, illustrated in Figure 1, will help attain the Urban Level of Flood Protection in SAFCA’s protected areas.

Folsom Dam Modifications – Folsom Dam Modifications include three related projects: the Folsom Joint Federal Project (JFP), the Folsom Dam Raise, and the Folsom Dam Water Control Manual Update.

The JFP is a joint project of the US Bureau of Reclamation, US Army Corps of Engineers (USACE), DWR, and SAFCA. The JFP created a new, gated auxiliary spillway on the east abutment of the dam, enabling the dam to be operated to accommodate a 200-year flood and changing the design flow of the river to 160,000 cubic feet per second (cfs). Currently, with the adoption of the updated water control manual, the 200-year discharge from Folsom Dam is approximately 120,000 cfs.

The Folsom Dam Raise will raise the height of the structures comprising Folsom Dam, including the main dam, wing dams, and dikes that contain Folsom Reservoir. Congress has authorized raising the height of the wing dams and dikes by 3.5 feet. This will allow flood operators to store

more flood water when forecasted inflows are decreasing (resulting in no imminent threat to the dam) and the additional storage is required to maintain releases from the dam at a level that can be safely contained by the downstream levee system. The project includes improving the flood gates on the main dam (USACE, 2017).

The Folsom Dam Water Control Manual Update optimizes operations at the dam with the JFP improvements. Once the Folsom Dam Raise is completed, the manual will be adjusted again to reflect the increased reservoir storage capacity created by that project. With the raise, studies indicate that in a 200-year flood, discharges into the American River will not exceed 115,000 cfs.

American River Common Features (ARCF) Natomas Basin (formerly called the Natomas Basin USACE Project) – The Natomas levees are being improved in two phases. Physical construction of the Natomas Levee Improvement Program (NLIP) Local Project, led by SAFCA, is complete and comprised eighteen miles of improvements to the Natomas Cross Canal and the Sacramento River East Levee. The ARCF Natomas Basin Project consists of levee improvements around the remainder of the 42-mile Natomas Basin perimeter. The USACE is planning and implementing the remaining elements (USACE, 2015):

- American River adjacent to Natomas Basin – widen 2 miles of levee in place and install a seepage cutoff wall through the levee and foundation.
- Sacramento River adjacent to Natomas Basin – construct 5 miles of adjacent levee, 3.3 miles of deep seepage cutoff walls, and 4.3 miles of seepage berms
- Pleasant Grove Creek Canal adjacent to Natomas Basin - Widen 3.3 miles of levee in place and install a soil bentonite cutoff wall on the Pleasant Grove Creek Canal.
- Natomas East Main Drainage Canal (NEMDC)/Steelhead Creek West Levee – widen 12.8 miles of existing levee and install 10.7 miles of cutoff wall.
- Natomas Cross Canal (NCC) – complete construction at gaps not remediated as part of NLIP at Bennett and Northern pumping plants and at the State Route 99 closure structure.

ARCF 2016 (formerly called American River Common Features General Reevaluation Report (GRR)) – The ARCF Natomas Project described above was authorized prior to the ARCF GRR, which project was authorized by Congress in the Water Resources Development Act (WRDA) 2016. ARCF 2016 features include more bank protection along the American and Sacramento rivers, levee height and seepage improvements along Arcade Creek, levee improvements on the Magpie Creek Diversion Channel, and changes to the Sacramento Weir and Bypass. On the Sacramento River east levee downstream of the American River, ARCF 2016 would improve deficient sites with features like the following:

- Slurry cutoff walls to address levee seepage and stability
- Rock bank protection to address erosion
- Geotextile slope stabilization to address levee stability
- Slope flattening to address levee stability
- Levee raise to address freeboard

Bank protection along the American River would consist of rock revetment with planting berms where feasible. In some cases “launchable rock” trenches, when undermined by erosion, would release rocks onto the erosion surface.

Sacramento River Bank Protection Project (SRBPP) – The SRBPP is an ongoing project to provide bank protection along critically eroding reaches of the Sacramento River flood control system, including tributaries like the American River. The SRBPP could accomplish a portion of the bank protection that otherwise would be done through ARCF 2016.

Levee Accreditation Project (LAP) – The LAP is a locally-led construction project that advanced portions of the ARCF 2016 prior to congressional authorization and funding. The LAP includes slurry cutoff walls along the Arcade Creek North Levee, the NEMDC East Levee, and the Arcade Creek South Levee (AECOM, 2015). SAFCA also began design along the Sacramento River East Levee (SREL). SAFCA’s design project included stability berms, relief wells, relief well improvements, cutoff walls, and toe drains. The project also included erosion repairs. The USACE took over design efforts along the Sacramento River in 2018 and will lead construction. Structures and vegetation encroaching on the levees will be removed if necessary to meet NFIP standards and the State’s ULDC.

The southernmost reach of the SREL at its junction with the Beach Lake Levee was evaluated in 2018 (MBK, 2018). MBK recommended improving the Beach Lake Levee and the Sacramento River East Levee downstream of the Beach Lake Levee. The recommendations included raising the Beach Lake Levee to meet ULDC requirements, possibly in conjunction with a riparian wind-wave buffer and DWR improvements to the levees of the McCormack-Williamson Tract. These improvements can provide ULOP by 2025. SAFCA has proceeded with the wind-wave buffer and is evaluating potential levee improvements.

South Sacramento County Streams Group (SSSG) Project – USACE was the lead agency on this completed project, which consisted of improvements to levees and channels along Morrison Creek and its tributaries in South Sacramento, including Florin Creek, Elder Creek, and Unionhouse Creek. Physical work is now complete, with reports, an Operations and Maintenance Manual, and fiscal closeout remaining.

Florin Creek Multi-Use Basin Project – In moderate and larger flood events, the completed Florin Creek Multi-Use Basin Project can store up to 30 acre-feet of Florin Creek flows at Florin Creek Park on the north bank of Florin Creek (ESA, 2014). It provides at least 100-year flood protection within its floodplain in conjunction with the Florin Creek capacity improvements constructed by USACE as part of the South Sacramento County Streams Group Project.

Non-Structural Actions – The state’s Urban Levee Design Criteria (ULDC) (DWR, 2012) are incorporated by reference in the ULOP Criteria and require many actions that are good practices for the effective operation and maintenance of levee systems to sustain system performance. These actions include such measures as engineering evaluation and documentation, development of security and safety plans, and other items. The non-structural actions and their necessity are described in greater detail in the Adequate Progress Engineer’s Report (MBK, 2016). Ongoing operation, maintenance, repair, and rehabilitation may be considered ongoing non-structural actions that to the extent required are funded by SAFCA and its land use agency and local maintaining agency partners. Progress on these actions is not reported here unless they are “critical features” under the meaning of CGC Section 65007(a)(3).

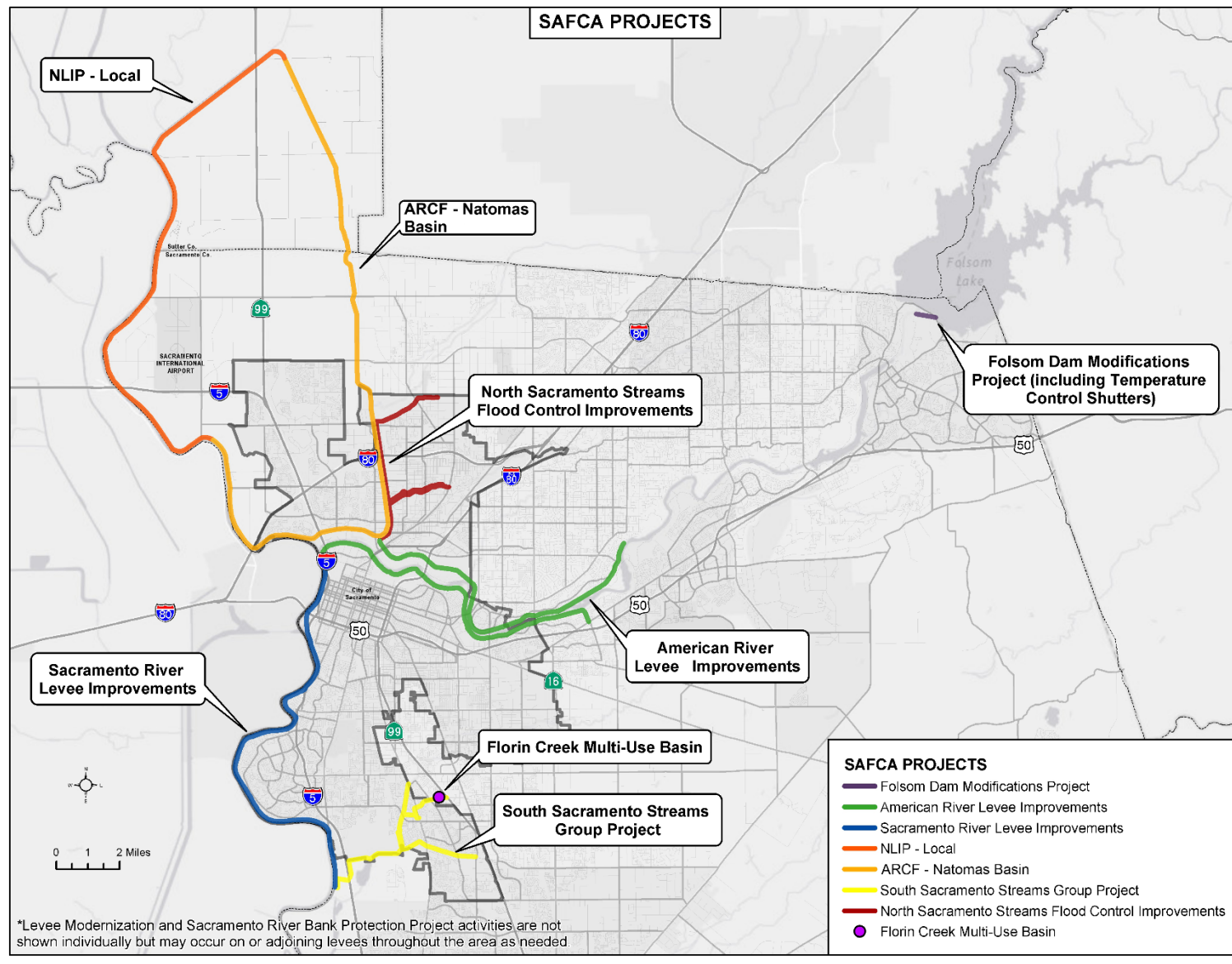


Figure 1: SAFCA Projects

2.2 Schedule

The Urban Level of Flood Protection must be achieved by the year 2025 in order for land use agencies, in approving new development, to make a finding that adequate progress is being made on the construction of a flood protection system (CGC §65865.5, §65962, and §66474.5). Table 1, below, from the ULOP Plan, lists the schedule for SAFCA projects.

Table 1: Timeline for Projects

Project	Natomas Levee System	Dry Creek Levee System	Robla Creek – Arcade Creek Levee System	American River North Levee System	American River South and Sacramento River East Levee System	South Sacramento Streams Levee System	Construction Complete by
Folsom Dam Modifications	Required for ULOP	Not required	Required for ULOP	Required for ULOP	Required for ULOP	Required for ULOP	2025
ARCF Natomas Basin Project	Required for ULOP	Not required	Not required	Not required	Not required	Not required	2025
NLIP Local Project	Required for ULOP	Not required	Not required	Not required	Not required	Not required	2016
ARCF 2016 (elements required for 200-year protection)	Provides resiliency (lowers water surface)	Not required	Provides resiliency	Required for ULOP	Required for ULOP	Provides resiliency	2025
SRBPP	As needed	As needed	As needed	As needed	As needed	As needed	As needed
LAP	Not required	Not required	Required for ULOP	Required for ULOP	Not required	Not required	2023
SSSG	Not required	Not required	Not required	Not required	Not required	Site specific*	Complete
Florin Basin	Not required	Not required	Not required	Not required	Not required	Site specific*	Complete
Additional South Sacramento SPFC Project(s)	Not required	Not required	Not required	Not required	Required for ULOP	Not Required	2025
<p>*This plan provides 200-year design flood risk reduction in the South Sacramento Streams area downstream of the Union Pacific Railroad (UPRR), subject to the evaluation of additional south Sacramento SPFC projects. Upstream of UPRR, the land use agency’s determination of whether ULOP is attained will depend on the specific site and development proposal as some areas of residual flooding over 3 feet deep remain. At some sites, the listed projects will help attain ULOP.</p>							

2.3 Costs, Revenues, and Appropriations

System improvement costs, or planned expenditures, were shown in the ULOP Plan as required by CGC Section 65007(a)(1). Revenues to fund those expenditures were also identified pursuant to CGC 65007(a)(2)(A). Table 2 shows combined planned expenditures for all agencies along with actual expenditures. Table 2 shows expenditures are keeping pace with or exceeding the planned level.

Table 2: Planned Expenditures (\$millions, all sources)

Fiscal Year	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
Original ULOP Plan Costs[1]	\$171.6	\$141.0	\$111.3	\$149.9	\$125.5	\$125.5	\$163.6	\$126.6	\$126.6	\$108.8
Actual Spent[2]	\$167.8	\$114.3	\$123.1	\$171.3	\$428.3	\$689.9	N/A	N/A	N/A	N/A
[1] Original ULOP Plan Costs include capital projects and levee modernization. Values in the 2016 ULOP Plan included system operations and maintenance (O&M) which are no longer shown. [2] Actual expenditures are SAFCA actuals plus estimates of other agency expenditures based on funding agreements and/or the progress of the projects.										

SAFCA, State, and federal appropriations also remain consistent with the plan, as shown in Table 3. CGC Section 65007(a)(2)(A) specifies that adequate progress means that 90 percent of the revenues scheduled to be received by that year have been appropriated and are currently being expended. Table 3 shows this requirement has been met with over 100% of scheduled revenues appropriated to date. The Federal and State appropriations reflect Congressional authorizations and executed funding agreements. SAFCA appropriations reflect past spending and current year appropriations. Section 3 of this report will describe how these appropriations are being expended.

Table 3: Cumulative Planned Expenditures, Actual Appropriations and Actual Expenditures Through 2020-2021 (\$millions, all sources)

Agency	Planned Expenditures*	Actual Appropriations**	Actual Expenditures***	Percent Appropriated Versus Planned Expenditures****
Federal	\$1,221.9	\$2,736.8	\$2,051.9	>100%
State	\$771.4	\$1,056.6	\$690.7	>100%
Local*****	\$47.5	\$47.4	\$47.5	100%
SAFCA	\$341.4	\$492.0	\$469.8	>100%
Total	\$2,382.2	\$4,332.8	\$3,259.9	>100%

Notes:
 *Planned expenses are the planned cumulative capital project expenses from Fiscal Year 2006-2007 through Fiscal Year 2020-2021 as shown in the 2016 ULOP report.
 ** For purposes of this report, State appropriations represent the amount of executed State funding agreements with SAFCA. Amounts listed as SAFCA appropriations include past spending plus current year appropriations to avoid double-counting unspent appropriations from prior years.
 *** Actual expenditures are SAFCA actuals plus estimates of other agency expenditures based on funding agreements and/or the progress of the projects.
 **** The federal and total percent appropriated exceed 100% because the federal Bipartisan Budget Act of 2018 (Public Law 115-123) included full funding for the American River Common Features and Folsom Dam Raise.
 *****The majority of the local share was from the City of Folsom for the bridge to relocate private vehicle traffic away from the Folsom Dam, which was a required flood project feature.

3. CONSTRUCTION OF CRITICAL FEATURES

Pursuant to Government Code Section 65007(a)(3), adequate progress on construction of a flood protection system means that critical features of the system are under construction and progress is indicated by the expenditure of the budgeted construction funds. The preceding section documented that SAFCA expenditures are on track. This section provides a brief summary of the construction progress in each of the SAFCA protected areas. This report does not distinguish between expenditures for physical construction and those for pre-construction permitting, engineering, and design because the cash flow and planned expenditures in the ULOP Plan do not provide line items for construction alone; and the pre-construction work is a planned and necessary component of ULOP Plan implementation.

All Protected Areas – All of the SAFCA protected basins benefit from the Folsom Dam Modifications. The first element of the modifications, the JFP, was largely completed in 2016. In 2017 the completed project was turned over to the US Bureau of Reclamation. On June 12, 2019 the Water Control Manual was formally executed. The Folsom Dam Raise construction contract for Dike 8 was awarded in 2019 and construction is nearly complete. Design work for Dikes 1-6 is underway. The draft final Emergency Spillway Release Diagram has been reviewed and will be used to develop hydrologic loading curves for use in the dam safety risk analysis and final designs.

The Sacramento Weir widening is in the 65% design stage and is being integrated with the State of California Lower Elkhorn Basin Levee Setback (LEBLS) project. SAFCA has nearly completed relocation of the Bryte Landfill to make way for the levee setback, and is seeking Surface Transportation Board approvals necessary to clear the way for acquiring railroad property necessary for the weir widening. DWR began work on moving back the east levee of the Yolo Bypass in 2020.

Natomas – SAFCA has largely completed its Natomas Levee Improvement Program (NLIP), which improved levees on the north and part of the west perimeter of the basin. The ARCF Natomas Basin Project is improving the basin’s remaining west, east and south levees. Construction in Reach D (Natomas Cross Canal South Levee) is nearly complete pending installation of monitoring wells. Reach I (American River North Levee west of Northgate Boulevard) included a blanket drain constructed under the I-5 overpass that is now complete, with the remainder of the cutoff wall in the reach along the Garden Highway expected to be complete by the end of 2020. USACE Reach B (along the SREL north of San Juan Road) construction is underway, including 4.3 miles of seepage cutoff wall, installation of seepage berms, and flattening landside slopes of some levees. Seepage cutoff wells and levee slope flattening is underway on USACE Reach H (along the NEMDC West Levee from Dry Creek to Northgate Boulevard). USACE has completed 100% design of Reach A (SREL from San Juan Boulevard to the American River) and is preparing to bid the work. USACE design work continues on the “Interstate 5 window” (Interstate 5 crossing of the SREL west of Sacramento International Airport) and Reach E (Pleasant Grove Creek Canal West Levee from Sankey Road to Howsley Road). Natomas benefits from the Folsom Dam Modifications discussed above.

Dry Creek North Levee System – No construction projects are required for the Dry Creek North Levee.

Robla Creek to Arcade Creek – In 2017, 14 relief wells were constructed along the Arcade Creek North Levee. Construction of cutoff walls under SAFCA construction contract 4355 is now substantially complete.

American River North Levee – Cutoff walls were constructed along the Arcade Creek South Levee and NEMDC East Levee as a part of contract 4355. Construction of cutoff walls was completed by USACE in 2015. Erosion protection is being implemented by USACE and should be complete by 2025.

American River South and Sacramento River East Levee – Structural improvements to the Sacramento River East Levee have been designed, and USACE has retained a construction contractor. Contract 1 included work in the Pocket area and a seepage berm near Front Street and Miller Park. The second contract along the Sacramento River East Levee in the Pocket area, now underway, is primarily cutoff wall construction to address seepage and stability issues. Work is also planned north of Miller Park near U.S. 50. Encroachments in the construction footprint were removed by SAFCA. Under its “levee modernization” project, SAFCA acquired a property adjoining the levee and removed encroachments on it preparatory to splitting the property under the flood easement and conveying fee title to the State or City. A voluntary encroachment

removal program has been initiated for other affected properties. Additional structural improvements recommended as a result of evaluations in 2018 included improvements to the Beach Lake Levee and the Sacramento River East Levee downstream of the Beach Lake Levee (MBK, 2018), and a feasibility study is underway. In 2019 SAFCA also retained a contractor who constructed an oak woodland mitigation project to provide a wind-wave buffer for the levee.

Erosion repair projects along the American and Sacramento rivers are being designed, with construction on two sites planned for award this year. Erosion evaluation is an ongoing activity on both rivers. Erosion protection is being implemented by USACE under their WRDA 2016 authorization and should be complete by 2025.

South Sacramento Streams Group –Upstream of the UPRR, construction is complete on the Florin Creek channel improvements and the Florin Creek Multi-Use Basin project. The Federal Emergency Management Agency (FEMA) issued a LOMR for that work that became effective on March 25, 2019. The City or County may choose to investigate whether some areas where 200-year flood depths are below 3 feet may be newly eligible for a ULOP finding based on 100-year protection.

4. DELAYS

Adequate progress towards achieving an Urban Level of Flood Protection means, according to Government Code section 65007(a)(4), that “the city or county has not been responsible for a significant delay,” among other things. In SAFCA’s flood protected areas, this standard has been achieved. As Table 4 demonstrated, to date local agencies have exceeded 100% of their planned expenditures for flood protection.

The ULOP Criteria recommend that annual progress reports address “any delay in State funding appropriation consistent with an agreement between a State agency and a local flood management agency.” As demonstrated earlier, State appropriations to date exceed their planned level. No other substantial reason for delay occurred during the year.

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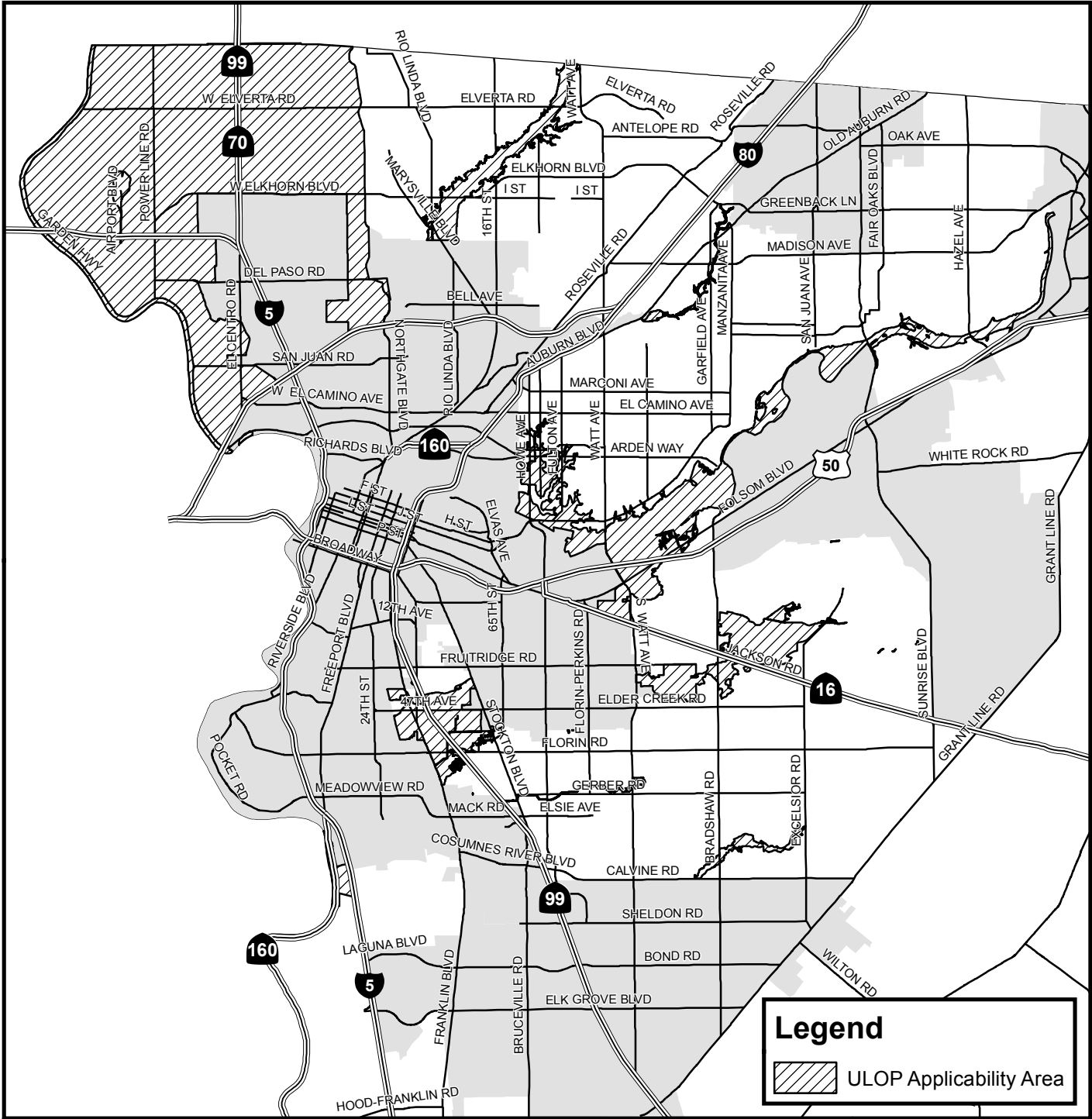
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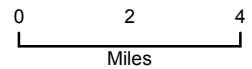
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EXHIBIT B 200-Year ULOP Applicability Area



Unincorporated Sacramento County
200-Year ULOP Applicability Area



Date: 8/10/2016

APPROVED

BOARD OF SUPERVISORS

Reso # 2015-0392

MAY 19 2015

By *Cyndi Lee*
Chair of the Board

**COUNTY OF SACRAMENTO
CALIFORNIA**

For the Agenda of:
May 19, 2015
Timed: 11:15a.m.

To: Board of Supervisors

From: Department of Water Resources
Department of Community Development

Subject: Adopt The Attached Resolution Finding That The Natomas Area Within Zone A99 Designation Is Reasonably Safe From Flooding And Authorizing Issuance Of Permits For Specific And Identified Types Of Development And Construction In Natomas In Flood Hazard Zone A99

Supervisorial
District(s): Serna

Contacts: Michael Peterson, Director of Water Resources 874-8913
Lori Moss, Director of Community Development 874-2558

Overview

Since December 8, 2008 the Natomas area has been mapped by the Federal Emergency Management Agency (FEMA) as a Zone AE, requiring new floor elevations to be 10 to 20 feet above ground, and effectively establishing a moratorium on new construction. Since then SAFCA, with funding from the State Department of Water Resources, has been implementing a series of levee improvements as part of an overall plan to ultimately achieve 200-year protection required by the State for Natomas. The levee improvements continue, and are to be completed by the Army Corps of Engineers. Citing the progress made to improve the levees and in securing federal authorization for the project, on June 10, 2014 the communities of Sacramento County, Sutter County and the City of Sacramento (Natomas Communities) jointly submitted a letter to the Federal Emergency Management Agency (FEMA) requesting that Natomas be remapped to Zone A99. FEMA responded in August 2014 by initiating the Zone A99 approval process. On March 30, 2015 FEMA notified the Natomas Communities that Zone A99 was approved and will be effective June 16, 2015. Pursuant to FEMA regulations a Zone A99 designation allows for the resumption of building construction at grade provided the local government finds the area to be reasonably safe from flooding and with the continued requirement for flood insurance for structures within the Zone. The City of Sacramento took similar action, on March 31, 2015, to allow Natomas development under the Zone A99 designation.

Recommendations

Adopt the attached resolution finding that the Natomas area within Zone A99 designation is reasonably safe from flooding and authorizing issuance of permits for specific and identified types of development and construction in Natomas in flood hazard Zone A99.

Measures/Evaluation

The availability of permits for building construction at grade, including but not limited to Sacramento International Airport (SIA) hotel and Metro Air Park permits, starting June 16, 2015 will allow for the repair of fire damaged structures, installation of tenant improvements, completion of construction on infill lots, entitlements approved in accordance with the process described in the Zoning Code, and new residential and commercial/industrial permits as progress continues by SAFCA and the Army Corps of Engineers to complete the remainder of the Natomas levee improvements.

Fiscal Impact

When applicants apply for permits they pay established fees.

BACKGROUND

On August 22, 2005, FEMA issued Procedure Memorandum 34 directing their staff to inventory levees and begin enforcing federal levee certification standards related to seepage. In 2007, state legislation, beginning with Senate Bill 5, was enacted which requires Central Valley communities to improve urban levees to a 200-year standard of flood protection. California voters also approved levee improvement bonds providing significant funding for the improvement effort.

In December 2008, as a result of Procedure Memorandum 34, FEMA de-accredited the Natomas levees and mapped the Natomas area into Special Flood Hazard Area Zone AE. This has since required that any new or substantially damaged/improved structures in the Natomas area be elevated to between 10 feet to 20 feet above the natural grade depending on location within the Natomas Basin. This effectively applied a moratorium on building in Natomas.

Earlier in that same year, the State Department of Water Resources and SAFCA, using State Bond funding and local assessments, initiated the renovation of the Natomas levee system (see Attachment 1 for Natomas Basin Levee Improvements) with a goal to ultimately achieve a 200-year flood protection standard. As a step towards that goal, the State Department of Water Resources and SAFCA completed a project in 2012 to construct 18 miles of levee improvements, at a cost of \$390 million, to the 200-year standard (including Natomas Cross Canal and Sacramento River levee improvements).

Moving forward, the Army Corps of Engineers, working with SAFCA and the Natomas Communities, will continue to implement Natomas levee system improvements that will achieve the 200-year flood protection standard. The Water Resources Reform and Development Act of 2014 (WRRDA) authorizes the U.S. Army Corps of Engineers to strengthen the remaining 24 miles of levees on the southern and eastern borders of the Natomas area (see Attachment 1). While WRRDA authorizes the work, Congress must appropriate the funding at an estimated total of nearly \$600 million. The Natomas levee improvement effort will require SAFCA to work alongside the U.S. Army Corps of Engineers and in coordination with the Natomas Communities to assure the project is moving forward.

On March 31, 2015, the Sacramento City Council approved a "Proposed Development Program for the Natomas Basin under A99 Flood Zone Designation". This program allows for resumption of Natomas development with a residential growth limitation of 1,500 dwelling units (1,000 single family and 500 multi-family) per calendar year.

DISCUSSION

Based on progress made by the State Department of Water Resources and SAFCA on improving the Natomas levees and securing WRRDA authorization for further improvements, the Natomas Communities jointly submitted a request letter to FEMA on June 10, 2014 (Attachment 2) which included the SAFCA Natomas Basin Protection System A99 Eligibility Summary Report (Attachment 3) to begin the remap process for Natomas from Zone AE to Zone A99.

In order for FEMA to approve a Zone A99 designation, a community must demonstrate to the satisfaction of FEMA that certain requirements have been met. The following outlines the specific Zone A99 requirements as well as how the Natomas Communities demonstrated compliance with each requirement:

1. 100 percent of the project is authorized
 - *2014 WRRDA authorized 100 percent of the National Levee Improvement Project*
2. 60 percent of the total project costs have been appropriated
 - *Completed SAFCA levee improvements*
 - *Local assessments available for Natomas flood control projects*
 - *Expected initial federal appropriations*
3. 50 percent of project costs expended
 - *Completed SAFCA levee improvements*
4. All features are under construction and 50 percent completed by actual expenditure.
 - *Completed SAFCA levee improvements*
5. Community not delaying necessary improvements
 - *FEMA outreach efforts uncovered no community opposition to the Zone A99 designation.*

FEMA replied in August 2014 with a Zone A99 letter of approval (Attachment 4), which initiated the remap process. On March 30, 2015, FEMA issued the letter of final determination of Zone A99 for the Natomas floodplain (Attachment 5), with an effective date of June 16, 2015. FEMA Zone A99 regulations allow building to occur at grade with the continued mandate of flood insurance and provided that the community makes a finding that the area is “reasonably safe from flooding.”

“Reasonably safe from flooding” means the base floodwaters (100-year riverine flood) will not inundate the land protected by the levee system (ref. 44CFR65.2(c)). Such a finding does not require that the levee improvements be fully completed since, by definition, Zone A99 designation requirements recognize that portions of the levee system improvements are still under construction. Thus, to make this finding, other aspects of the Natomas flood protection system are highlighted below:

The following facts should be considered regarding the finding of reasonably safe from flooding in Natomas:

- The history of the Natomas levee system shows that the levees have never failed to provide protection;
- A significant portion (18 miles) of the levee system on the north and east sides of Natomas have been constructed to a 200-year standard;

Adopt The Attached Resolution Finding That The Natomas Area Within Zone A99 Designation Is Reasonably Safe From Flooding And Authorizing Issuance Of Permits For Specific And Identified Types Of Development And Construction In Natomas In Flood Hazard Zone A99

Page 4

- The Army Corps of Engineers continues to move forward on the additional Natomas levee improvements;
- The Natomas levees are maintained by an active and funded reclamation district (RD-1000) with full-time staff;
- Over time the levees have been continually improved and are much better suited to assure flood protection today than they have ever been in the past.

As such, it is recommended that the County consider the issuance of building permits and development approvals in Natomas under Zone A99 with a measured approach. In consideration of the short-term and long-term potential for development, it is recommended that County permits be allowed in the Natomas Zone A99 subject to the conditions compelling applicants to maintain flood insurance as required per the National Flood Insurance Program (NFIP) and record an agreement (approved as to form by County Counsel and Risk Management) to acknowledge and document the continuing flood risk in Zone A99 and the aforementioned flood insurance requirement for the following limited categories:

- Substantial repairs or improvements for structures that were fire damaged after the 2008 building moratorium took effect
- Substantial improvements for structures that were displaced by the SAFCA led Sacramento River levee improvements
- New or infill residential and commercial/industrial construction on previously entitled lots
- Entitlements and Land Divisions consistent with existing zoning including but not limited to tentative subdivision maps, tentative parcel maps, conditional use permits, and amendments to existing Special Planning Areas, approved through the process outlined in the Zoning Code.

While there is still 24 miles of levee improvement work necessary to certify the Natomas levee system and achieve 200-year protection, the community will be responsible for annually demonstrating to FEMA that adequate progress is being made on the improvements needed to recertify the levees to retain the Zone A99 designation. Beginning July 1, 2016, the community will be required to annually demonstrate to the State of California that adequate progress is being made on achieving the 200-year standard by 2025. County Department of Water Resources is actively pursuing compliance with the 2016 State of California mandate in coordination with other local flood control agencies. Failure to demonstrate annual progress with FEMA or the State could result in the implementation of a new moratorium on development by either entity.

Any construction in a Zone A99 will be subject to flood insurance in accordance with the NFIP. Lenders backed by the Federal Deposit Insurance Corporation (FDIC) must require flood insurance in FEMA mapped Special Flood Hazard Areas. The NFIP sets rates in Zone A99 at a rate far lower than the true risk rate under Zone AE. Flood insurance is and will continue to be a mandatory requirement for all Natomas Basin property owners until such time as the entire levee system is accredited and the Zone A99 designation is revised to Zone X.

To ensure that development in the Zone A99 is considered in the context of the long-term requirements to achieve 200-year protection in Natomas, it is recommended that approval of new entitlements requiring residential rezoning be restricted by this Board until there is much more

certainty concerning achieving 200-year level of flood protection. A report will be made annually to the Board of Supervisors, in conjunction with the adequate progress reports required by FEMA and the State, to provide an update on the status of the Natomas levee improvements, in light of improvement progress, and to annually consider the timing and manner for approving new entitlements in the Natomas area.

MEASURES/EVALUATION

The availability of permits for building construction at grade, including but not limited to SIA hotel and Metro Air Park permits, starting June 16, 2015 will allow for the repair of fire damaged structures, installation of tenant improvements, completion of construction on infill lots, entitlements approved in accordance with the process described in the Zoning Code, and new residential and commercial/industrial permits as progress continues by SAFCA and the Army Corps of Engineers to complete the remainder of the Natomas levee improvements.

FINANCIAL ANALYSIS

When applicants apply for permits they pay established fees.

Respectfully submitted,

APPROVED:
BRADLEY J. HUDSON
Sacramento County Executive Officer

MICHAEL PETERSON, Director
Department of Water Resources

LORI A. MOSS, Director
Department of Community Development

By: _____
ROBERT B. LEONARD
Chief Deputy County Executive

Attachments:

Resolution

1. Natomas Levees
2. Rezone to A99 Request Letter June 14, 2014
3. Zone A99 Eligibility Report
4. FEMA Letter of A99 Approval August 2014
5. FEMA Letter of Final Determination March 30, 2015

COUNTY OF SACRAMENTO

RESOLUTION NO. 2015-0392

**FINDINGS TO ALLOW SPECIAL PLANNING AREA AMENDMENTS,
AND PERMITS AND ENTITLEMENTS CONSISTENT WITH CURRENT
ZONING IN THE NATOMAS AREA UNDER FEMA FLOOD HAZARD
ZONE A99**

WHEREAS, Natomas is an area surrounded by levees operated and maintained by Reclamation District 1000;

WHEREAS, the County applied for and FEMA issued a Notice of Final Determination dated March 30, 2015 stating that the flood hazard zone in Natomas will be revised to Zone A99 effective June 16, 2015;

WHEREAS, The County of Sacramento Floodplain Management Ordinance SZC-2014-0007, Section 905-04 allows issuance of Floodplain Management Permits in Zone A99 pursuant to specific development and construction requirements set by the Board of Supervisors;

WHEREAS, Floodplain Management Permits are required prior to development and construction within the floodplain;

WHEREAS, the United States Code of Federal Regulations 44 CFR 60.3(d) & 60.3(a)(3) calls for a finding that an area within Zone A99 is reasonably safe from flooding from the base flood event (100-yr flood);

WHEREAS, the Natomas levee system has been maintained by Reclamation District 1000 since 1915 withstanding six (6) major floods in that time;

WHEREAS, Reclamation District 1000 has full-time staff with the recognized expertise, funding, and interagency alliances to provide effective flood monitoring and fighting;

WHEREAS, the Sacramento Area Flood Control Agency, working with local, state, and federal agencies has made significant progress improving the Natomas levee system, investing hundreds of millions of dollars in improvements over the past six (6) years;

WHEREAS, the Central Valley Flood Protection Act of 2008 Urban Level of Flood Protection Criteria requires levees be improved to a 200-yr level of protection by 2025 and that a plan to achieve that goal be adopted by the Board of Supervisors before July 2016;

WHEREAS, the County's obligations pursuant to the Central Valley Flood Protection Act of 2008 will require the County to demonstrate annually that adequate progress is being made to achieve the required urban level of flood protection (200-year flood) for Natomas by 2025;

WHEREAS, the United States Army Corps of Engineers is authorized under the Water Resources Reform and Development Act of 2014 to assist Sacramento Area Flood Control Agency toward meeting the required flood protection in Natomas;

WHEREAS, Natomas property owners may be compelled by loan requirements or other obligations to maintain a specific level of flood insurance pursuant to the area's Zone A99 status, as there remains some risk of flooding due to levee failure; and,

WHEREAS, new construction and development in Natomas comes with additional potential damage due to variables and uncertainties in the levee improvement project schedule leading to full certification of the levee system; and,

WHEREAS, any construction within Zone A99 will be subject to flood insurance in accordance with the National Flood Insurance Program.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED

The above recitals are hereby incorporated and provide the basis for this Board's finding that the Natomas area within Zone A99 designation is reasonably safe from flooding so as to authorize specific and identified types of building and development, including amendments to Special Planning Areas. Floodplain Management Permits may be issued for new construction and entitlements consistent with current zoning without special building flood-proofing measures in the Natomas Zone A99 area subject to:

1. Recordation by the property owner of an agreement approved as to form by County Counsel and Risk Management prior to permit issuance that includes notice and acknowledgment of the flood hazard, insurance requirements, and levee project uncertainties described above; and
2. The County maintaining the Zone A99 designation on the Flood Insurance Rate Map, requiring the County CEO or designee to annually certify to FEMA that no present delay in completion of the project is attributable to local sponsors of the project, and that a good faith effort is being made to complete the levee certification; and
3. Adequate progress is made in achieving the California Central Valley Urban Level of Flood Protection Criteria pursuant to California Government Code 65007(a).

Findings To Allow Special Planning Area Amendments, And Permits And Entitlements Consistent With Current Zoning In The Natomas Area Under Fema Flood Hazard Zone A99

On a motion by Supervisor Serna, seconded by Supervisor Peters, the foregoing Resolution was passed and adopted by the Board of Supervisors of the County of Sacramento, State of California, this 19th day of May, 2015, by the following vote, to wit:

AYES: Supervisors, Kennedy, MacGlashan, Nottoli, Peters, Serna

NOES: Supervisors, None

RECUSAL: Supervisors, None
(PER POLITICAL REFORM ACT (§ 18702.5.))

ABSENT: Supervisors, None

ABSTAIN: Supervisors, None



Chair of the Board of Supervisors
of Sacramento County, California

ATTEST: Cyndi Lee
Clerk, Board of Supervisors

In accordance with Section 25103 of the Government Code of the State of California a copy of the document has been delivered to the Chair of the Board of Supervisors, County of Sacramento on 5-19-15

By: S. Studdert
Deputy Clerk, Board of Supervisors

FILED
BOARD OF SUPERVISORS

MAY 19 2015
BY Cyndi Lee
CLERK OF THE BOARD

Central Valley Regional Water Quality Control Board

6 April 2022

Scott Johnson
City of Sacramento
Community Development Department
300 Richards Boulevard, 3rd Floor
Sacramento, CA 95811
srjohnson@cityofsacramento.gov

COMMENTS TO REQUEST FOR REVIEW FOR THE NOTICE OF PREPARATION FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, AIRPORT SOUTH INDUSTRIAL PARK PROJECT, SCH#2022030181, SACRAMENTO COUNTY

Pursuant to the State Clearinghouse's 4 March 2022 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Notice of Preparation for the Draft Environmental Impact Report* for the Airport South Industrial Park Project, located in Sacramento County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by

the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases, the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues. For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:
http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Implementation Policy is available on page 74 at:

https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_2018_05.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit), Construction General Permit Order No. 2009-0009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). For more information on the Construction General Permit, visit the State Water Resources Control Board website at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits¹

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ. For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACE). If a Section 404 permit is required by the USACE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements. If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACE at (916) 557-5250.

¹ Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications. For more information on the Water Quality Certification, visit the Central Valley Water Board website at:

https://www.waterboards.ca.gov/centralvalley/water_issues/water_quality_certification/

Waste Discharge Requirements – Discharges to Waters of the State

If USACE determines that only non-jurisdictional waters of the State (i.e., “non-federal” waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation. For more information on the Waste Discharges to Surface Water NPDES Program and WDR processes, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/water_issues/waste_to_surface_water/

Projects involving excavation or fill activities impacting less than 0.2 acre or 400 linear feet of non-jurisdictional waters of the state and projects involving dredging activities impacting less than 50 cubic yards of non-jurisdictional waters of the state may be eligible for coverage under the State Water Resources Control Board Water Quality Order No. 2004-0004-DWQ (General Order 2004-0004). For more information on the General Order 2004-0004, visit the State Water Resources Control Board website at:

https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2004/wqo/wqo2004-0004.pdf

Dewatering Permit

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Threat General Order) 2003-0003 or the Central Valley Water Board’s Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Threat Waiver) R5-2018-0085. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf

For more information regarding the Low Threat Waiver and the application process, visit the Central Valley Water Board website at:

https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2018-0085.pdf

Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Limited Threat Discharges to Surface Water* (Limited Threat General Order). A complete Notice of Intent must be submitted to the Central Valley Water Board to obtain coverage under the Limited Threat General Order. For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:

https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076-01.pdf

NPDES Permit

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit. For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at: <https://www.waterboards.ca.gov/centralvalley/help/permit/>

If you have questions regarding these comments, please contact me at (916) 464-4709 or Greg.Hendricks@waterboards.ca.gov.



Greg Hendricks
Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research,
Sacramento

From: [Anna Starkey](#)
To: [Scott Johnson](#)
Cc: [Cheryle Hodge](#); [Henriquez, Jose](#)
Subject: RE: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR
Date: Wednesday, March 9, 2022 4:35:26 PM

Good afternoon Mr. Johnson,

The following comments are on behalf of UAIC regarding the NOP for the EIR Airport South Industrial Project (P21-017) Project. We appreciate the opportunity to provide comments.

As UAIC is consulting on this project, the Tribal Historic Preservation Department has the following expectations of the Tribal Cultural Resources Chapter of the EIR.

1. We ask that the Cultural Resources and Tribal Cultural Resources (TCRs) chapter and mitigation measures are separate and distinct, and are not combined. This is because tribal values are used to identify, evaluate, and treat TCRs, while archaeological values are used for cultural and historic resources. Separating the chapters also allows the opportunity to discuss Tribes in a contemporary context, especially when consulting under AB 52.
2. We ask that the identification, evaluation, and treatment of TCRs be taken into consideration with the same level of analysis and professionalism by Tribes that archaeologists are given. The identification and evaluation of TCRs should be no less rigorous than archaeological resources and can only be accomplished through tribal consultation.
3. UAIC reiterates that California Native American tribes traditionally and culturally affiliated with a geographic area may have expertise concerning their TCRs (PRC Section 21080.3.1). This means that archaeologists shall not identify, evaluate, or make recommendations for cultural items or sites that are considered TCRs unless it is in direct coordination with consulting Tribes.
4. The following *resources UAIC identifies as TCRs:
 - Indigenous archaeological sites
 - Sacred Lands or sites
 - Traditional Cultural Properties
 - Midden/Anthropogenic soils, including disturbed soils
 - Burials, cremations, and all related burial or ceremonial items
 - Burial soils
 - Isolated indigenous objects, including artifacts
 - Cultural landscapes and topographic features
 - Indigenous trails
 - Significant native plants/gathering areas

- Traditional hunting and fishing areas
- Waterways and associated landscapes

*Not limited to

5. UAIC requests that the TCR chapter and report does not refer to tribes and their ancestors as “prehistoric”. The cultural resources Ethnographic section is actually “ethnohistory”, unless contemporary Tribal peoples are actually interviewed and provide their ethnography.
6. UAIC requests that aesthetic, natural, scenic, and historic environmental qualities are analyzed in the TCR chapter, as appropriate.

Thank you for involving UAIC in the planning process at an early stage. We ask that you make this letter a part of the project record and we look forward to working with you to ensure that TCRs are protected.

Sincerely,
Anna Starkey

From: Scott Johnson <SRJohnson@cityofsacramento.org>
Sent: Friday, March 4, 2022 6:56 AM
To: Scott Johnson <SRJohnson@cityofsacramento.org>
Cc: Cheryle Hodge <CHodge@cityofsacramento.org>; Henriquez. Jose <henriquezj@saccounty.net>
Subject: Airport South Industrial Project (P21-017) CEQA Notice of Preparation of EIR

The City of Sacramento and the Sacramento County Local Agency Formation Commission as co-lead agencies are circulating the Notice of Preparation (NOP) for the Airport South Annexation Project. Agencies and members of the public are invited to comment on the scope of the Environmental Impact Report (EIR).

The NOP comment period is March 4, 2022 to April 4, 2022. A scoping meeting will be held on March 16, 2022.

The project is located southeast of the intersection of Powerline Road and Interstate 5 (I-5) in Sacramento County, California. The approximately 450-acre project site is undeveloped and consists entirely of agricultural land. The proposed project would include development of an industrial park, that would allow for construction of up to 6,600,000 square feet (sf) of industrial uses across approximately 408 acres, as well as approximately 100,000 sf of retail/commercial uses, including approximately 61,000 sf of hotel/hospitality, and associated parking lots, on approximately 11 acres.

Comments in response to the NOP should be addressed to Scott Johnson, Senior Planner for the City of Sacramento. Telephone: (916) 808-5842; Email srjohnson@cityofsacramento.org.

The Notice of Preparation is attached.

Scott Johnson
City of Sacramento
Community Development Department
Environmental Planning Services
300 Richards Blvd., 3rd Floor
Sacramento, CA 95811
(916) 808-5842
srjohnson@cityofsacramento.org

Nothing in this e-mail is intended to constitute an electronic signature for purposes of the Electronic Signatures in Global and National Commerce Act (E-Sign Act), 15, U.S.C. §§ 7001 to 7006 or the Uniform Electronic Transactions Act of any state or the federal government unless a specific statement to the contrary is included in this e-mail.



INLAND EMPIRE BIKING ALLIANCE

4 April 2022

City of Sacramento Community Development Department
Attn: Scott Johnson, Senior Planner
300 Richards Blvd., Third Floor
Sacramento, CA 95811

Submitted via email to srjohnson@cityofsacramento.gov.

Re: Airport South Industrial Park Notice of Preparation (SCH #2022030181)

Dear Mr. Johnson,

I am writing to respond to the Notice of Preparation for the Airport South Industrial Park (“Project”) which has been made available for comment. The main concern is that it is vital for the EIR study to ensure that the appropriate accommodations for bicyclists to ensure a level-of-traffic-stress of 1 based on guidelines from Caltrans¹ or the FHWA². As the proposed Project would be building completely new infrastructure, it is imperative that the best and most up-to-date designs be used for that purpose to ensure that it is not a hinderance in the future. Additionally, these standards need to also be applied to any offsite locations which are determined to need infrastructure improvements. Finally, connecting the site to the regional trail network, including the construction of a trail along the West Drainage Canal which borders the Project site and an active transportation plan specific to this area, needs to be included as part of the EIR to ensure that there are viable low-stress routes for people to be able to access the area without the use of a car.

Thank you for your time and attention to this matter. Please do not hesitate to reach out with any questions.

Sincerely,

Marven E. Norman, Executive Director

CC: Debra Banks, Executive Director, Sacramento Area Bicycle Advocates

About IEBA The Inland Empire Biking Alliance is advocating for making the Inland Empire a better place for people from all rolls of life. From the children just learning how to ride to the mountain bikers to those headed back and forth to work, school, or their preferred shopping center and beyond, we speak up to make sure they all have safe and convenient place to ride.

¹ Flournoy, M. (2020). Contextual guidance for bike facilities. Caltrans. Retrieved from <https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/office-of-smart-mobility-and-climate-change/planning-contextual-guidance-memo-03-11-20-a11y.pdf>.

² Schultheiss, B., Goodman, D., Blackburn, L., Wood, A., Reed, D., & Elbech, M. (2019). Bikeway selection guide (FHWA-SA-18-077). US Department of Transportation, Federal Highway Administration. Retrieved from https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf.



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8867 Bluff Lane, Fair Oaks CA
95628 916 769 2857



909 12th St., Sacramento CA
95814

Sacramento Audubon Society



P.O. Box 160694
Sacramento, CA 95816-0694

April 4, 2022

Cheryle Hodge, Principal Planner/New Growth Manager, City of Sacramento
Jose C. Henriquez, Executive Officer, Sacramento Local Agency Formation Comm
Via email

Scott Johnson, Senior Planner
City of Sacramento Community Development Department
300 Richards Blvd., Third Floor
Sacramento, CA 95811
Telephone: (916) 808-5842
E-mail: srjohnson@cityofsacramento.org

Comment re Notice of Preparation of Environmental Impact Report and Scoping Meeting for
the Airport South Industrial Project (P21-017)

Dear Mr. Johnson:

- 1. The MOU Between LAFCo and City of Sacramento staff, "effective July 30, 2021" authorizing environmental review for this project was not approved by the Sacramento City Council and thus is illegal and void.**

Sacramento LAFCo and City Staff have made an unauthorized discretionary decision to process this environmental review without a public hearing and without the approval of the Sacramento City Council. The discretionary decision, which is an MOU to combine processing of a proposed Sphere of influence Amendment and an annexation of a 450 acre proposed project in unincorporated Sacramento County, was first approved by Sacramento LAFCo, and then submitted to the Sacramento City Council for its June 27, 2021 Consent Calendar agenda. We objected to Council approval by Consent Calendar and asked for a public hearing. Prior to the Council meeting, City staff then withdrew the item from Council consideration and thereafter unlawfully approved the MOU by signature of Tom Pace, Community Development

Director, signing for City Manager, Howard Chin, without the review or approval of City Council, dated "effective July 30, 2021."

The landowner-applicant (AKT Development) then closed escrow on the sale of the property to a developer on August 9, 2021, for \$14.6 million. We believe that Staff's unauthorized approval of the MOU induced the buyer to close escrow on the property. It is widely known that the landowner-applicant has very considerable political influence.

City Staff asserted via email, 9/3/2021, that City Revenue and Finance Code 3.04.010.A.5 authorized Staff to sign the MOU without Council approval because there was no money involved, which is an overbroad interpretation that would authorize the City Manager to approve literally any agreement regarding any matter with another jurisdiction involving less than \$250,000 without Council approval. The City Revenue and Finance Code governs fiscal matters only and is inapplicable to land use legislative actions.

The applicable legal guidance is the City Planning and Development Code 17.808.310, which states that legislative change requests associated with single development projects are decided at the highest level required for the project, which for an SOI and Annexation is the Council. City staff failed to comply.

2. The NOP fails to disclose that project approval would require approval of an Effects Analysis and issuance of Incidental Take Permits under the Federal and State Endangered Species Acts by the Federal and State Wildlife Agencies, pursuant to the 2003 Natomas Basin Habitat Conservation Plan ("NBHCP"), which the wildlife agencies may or may not choose to issue.

The NOP, at page 3, states that the proposed project would require approval of certain entitlements. However the NOP fails to state that approval of an Effects Analysis and Issuance of Incidental Take Permits by the Federal and State Wildlife Agencies are also required pursuant to the 2003 NBHCP, which the wildlife agencies may or may not issue. See 2003 NBHCP Implementing Agreement §3.1(b). The project site lies entirely outside the City's Permit Area under the 2003 NBHCP.

City staff are very aware of this requirement. Omission from the NOP list of entitlements necessary for the project approval raises suspicion that perhaps the City thinks that it can avoid compliance.

3. City staff's claim that 121 acres of the project area is covered by the City's NBHCP Permit Area is erroneous and a falsification of the adopted map of the City's Permit Area.

The project proponent and City staff claim that the eastern most 121 acres of the project area, specifically the Cayucco and Sidiqqi properties, is within the permit area of the NBHCP, which

is not true. The City's NBHCP Permit Area is very explicitly defined by the 2003 Natomas Basin Habitat Conservation Plan and its Implementation Agreement and does not extend westward beyond the City's legal boundary. SEE maps of City Permit Area, NBHCP Figure 2 and NBHCP Implementing Agreement Exhibit B.

City staff claims that City is entitled to more development than shown on the NBHCP Permit Area map area (NBHCP Figure 2, Implementing Agreement Exhibit B), and that the maps of the Permit Area are erroneous due to clerical error; not true.

The Implementing Agreement was signed by City, Sutter County, the Natomas Basin Conservancy, and the U.S. Fish and Wildlife Service, and the California Department of Fish and Wildlife. The representatives of the Federal and State wildlife agencies have stated their disagreement with City's claim that the City's Permit Area includes part of this proposed annexation area. A modification of the City's Permit Area maps would require an amendment to the NBHCP and its Implementation Agreement signed by all parties, including USFWS and CDFW, which have rejected the City's assertion. City does not have authority to unilaterally modify City's NBHCP Permit Area.

City's maps of the alleged Permit Area which shows the Permit Area as including land west of the City limit at Westlake are falsifications of the adopted NBHCP Permit Area map, which could have legal consequences for whomever promulgates the false Permit Area maps.

4. The Project Is Inconsistent with the City General Plan Which Does not Include the Project Area.

The NOP describes the process as a two step sequence, in which the same EIR document will serve for LAFCo's consideration of the SOI Amendment and the City's consideration of annexation and all the other approvals needed to authorize the project. The NOP states that the City seeks to inform the public and public agencies about the project and its potential environmental effects. Yet an SOI decision is not about a project but about a future potential direction for urbanization. Urbanization of this area is a policy question that deserves to be considered on its own merits prior to consideration of any specific project proposal.

The MOU has set into motion a process in which a project nowhere envisioned in the City's General Plan, will have its own exclusive pathway to being added to the General Plan, be rezoned, annexed, receive parcel map, Development Agreement and Planned Unit Development (PUD) approvals completely out of sync with the General Plan Update process.

The City has never adopted any planning document anticipating annexation west of the City and south of I-5. It did agree to a "Joint Vision" planning process with the County in 2002 to consider various options for further development in North Natomas as a cooperative effort. While the current General Plan has included this very large study area for the last 20 years, the

City has not adopted any analysis or report to support development in this area. City staff work on "Joint Vision" ended some years ago.

The current General Plan and the General Plan update (now close to completion) do not include urbanization in the area covered by the NOP. (Map attached) Moreover, expansion of the SOI west of the City into agricultural land covered by the Natomas Basin Habitat Conservation Plan directly conflicts with General Plan policies ER 2.1.12 and ER 2.1.14, ER 4.2.1, ER 4.2.3 and ER 4.2.4. Should the City wish to expand its Sphere of Influence into County jurisdiction in North Natomas, it should address this issue in its General Plan update, not as a separate project .

Sacramento LAFCo Policy IV.B.I states that "LAFCo will approve changes of organization or reorganization **only if the proposal is consistent with the General Plan . . .**" Therefore LAFCo cannot approve a change of organization for the NOP area until the City changes its General Plan to include that area.

Please note that Chapter 3, Section 56375 (7) of the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 pertaining to LAFCo requires that in the case of annexation:

"(7) The decision of the commission with regard to a proposal to annex territory to a city **shall be based upon the general plan** and rezoning of the city. When the development purposes are not made known to the annexing city, the annexation shall be reviewed on the basis of the adopted plans and policies of the annexing city or county. A commission shall require, as a condition to annexation, that a city prezone the territory to be annexed "

The City's policies and plans not only do not include urbanization of the farmland outside of the City limit proposed as the South Airport Industrial Project, the City's policies and plans prohibit development in this area. Therefore LAFCo should not consider the SOIA until after City policies and plans are changed by the City.

It also appears from the NOP that the City staff assumes that the Sphere of Influence expansion west in the Natomas Basin will be approved by the City Council. On page 3 of the NOP, decisions are listed that City must make and the list does not include approval of a Sphere of Influence Amendment. The NOP states the Sphere of Influence Amendment is a LAFCo decision. Where in LAFCo law is LAFCo authorized to impose a Sphere of Influence change on a city without the City taking formal action to request or approve the change? We are puzzled by a process in which the City Council is excluded from the decision as to probable future growth area for the City. This is a threshold issue that should be decided prior to any analysis or consideration of a specific annexation proposal. Please explain the legal basis allowing City Council to be excluded from deciding whether the City should grow in the project area in future.

5. Project Conflicts with County General Plan, GP Policies and Regional Plans

The County General Plan includes an Urban Services Boundary, agricultural protection policies and other commitments to maintain the project area in agriculture. These policies in turn underpin regional planning for climate change, air quality, transportation, land use and other urban infrastructure. Permitting urbanization in an area designated by the County General Plan and regional plans as agriculture has profound impacts on the entire region. These are state and federal plans, with state and federal constraints due to significant funding from these levels of government. Please fully consider all the impacts on state and federally approved plans.

6. Impacts on 2003 NBHCP, Natomas Basin Conservancy ("NBC") and NBHCP Conservation Strategy

a. Impacts of EIR Preparation. We believe that the preparation of an environmental impact report for the combined Sphere of Influence Amendment and annexation of the "Airport South Industrial Project" does direct harm to the Natomas Basin Habitat Conservation Plan (NBHCP), the Natomas Basin Conservancy (NBC) and the conservation strategy authorized by the NBHCP Implementation Agreement between the City of Sacramento, the Department of Fish and Wildlife (CDFW) and the US Fish and Wildlife Service (USFWS). There are unmitigated environmental impacts from the discretionary decision City staff have made to process this application in this manner.

On August 9, 2021, shortly after the City staff signed the MOU, the major property owner, AKT Development, sold 282 acres of the property to an industrial developer, North Point, for \$14.6 million (\$51,773 per acre). ("NorthPoint buys more land outside Metro Air Park," *The Sacramento Business Journal*, September 3, 2021) We believe that City Staff's approval of the MOU with LAFCo to consider annexation may have induced the buyer to believe that the Council would approve annexation and development of the property and to thus consummate the purchase. It is noteworthy that documents prepared by City Staff, LAFCo staff, and the landowner's attorney fail to mention the requirements of the NBHCP, which raises suspicion that this information was deliberately omitted.

The sales price of the land at over \$50,000 an acre exceeds the current market value of farmland in Natomas (and the region) and escalates land speculation in the NBHCP preserve area. The current fee for land acquisition for NBC is discussed in Economic and Planning Systems, *Natomas Basin Habitat Conservation Plan Fee Update—2021 Memorandum, November 24, 2020*. "The estimated land acquisition cost per acre was kept at \$30,000 per acre this year, with no change from the 2020 model." (p. 3)

The sale directly jeopardizes the success of the NBHCP and its conservation strategy by increasing the market values of farmland in Natomas Basin, while removing from the potential preserve acquisition of 450 acres of the type of land which is required to be acquired and permanently preserved to meet the conservation strategy of the NBHCP. It has been difficult

and costly to assemble mitigation lands in the Natomas Basin, and this sale aggravates that problem. The quality and location of mitigation land becomes crucially more important as the reserve system takes its final shape. The availability and affordability of farmland for mitigation acquisition is essential to the conservation strategy of the NBHCP. (P. IV-13.)

This strategy was based on the assumption that the **supply** of working North Natomas (in private hands) would augment the foraging values on the preserved upland, and ensure an affordable supply of mitigation land at affordable prices

The EIR should consider the impact of the annexation process and the Sphere of Influence decision on the Natomas Basin Conservancy, NBHCP and conservation strategy as separate impacts from the annexation itself. The draft EIR should propose mitigation measures to undue the harm already done and the impact of a stand alone SOI Amendment.

b. Impacts on City Obligations under 2003 NBHCP Implementation Agreement not to Approve Beyond Authorized Development. City's development in the Basin is subject to the 2003 NBHCP, and its Implementation Agreement, an agreement signed by the City, Sutter County and the Federal and State Wildlife Agencies. The 2003 NBHCP Implementation Agreement ("IA") §3.1.1 provides that "CITY agrees not to approve more than 8,050 acres of Authorized Development and to **ensure that all Authorized Development is confined to CITY's Permit Area** as depicted on **Exhibit B**. . . ." (see ATTACHED Exhibit B). See also 2003 Natomas Habitat Conservation Plan, ATTACHED Figure 2, "Land Use Agencies Permit Areas."

The City also agreed in the NBHCP that "in the event that future urban development should occur, **prior to approval of any related rezoning or pre-zoning**, such future urban development shall trigger a reevaluation of the Plan and Permits, a new effects analysis, potential amendments and/or revisions to the Plan and Permits, a separate conservation strategy and issuance of Incidental Take Permits to the permittee for that additional development **and/or possible suspension or revocation of [Permit] in the event that the City or Sutter violates such limitations.** " ((IA 3.1 (a)).

c. The "effects analysis" called for in the NBHCP should take place prior to preparing an EIR on a private owner application for annexation of this property. As the developer invests more into the project, there is an increasing expectation on the developer's part that the project will get approved. Rather than encourage a self-fulfilling prophecy, the City should demonstrate with a scientific analysis - approved by the wildlife regulatory agencies - that the project will not be detrimental to the conservation strategy of the Habitat Conservation Plan, before any consideration is given to the project. Specifically, we believe the Effects Analysis and approval by the wildlife regulatory agencies should precede and be a precondition for the preparation of an EIR on annexation of land that City previously agreed in the NBHCP that it would not be included in an SOI, annexed, or developed.

d. Specific Conflicts Between the Project Proposal and the NBHCP Conservation Strategy. The EIR Preparers should carefully review Chapter IV of the NBHCP, the conservation strategy. See attached map of NBC preserve properties. Note that this map only shows preserve areas managed by NBC. The EIR should also include identification of all other mitigation properties, including SAFCA mitigation lands, SMF mitigation lands and Greenbriar mitigation properties. The map also does not show the protected status of the Lone Tree Canal, north of the project area. Preparers should consult with USFWS and CDFW to determine all mitigation properties in the Basin in order to assess impacts on mitigation lands of the proposed project.

Any impact on the canals operated by RD 1000 and Natomas Mutual should be examined in the EIR. "The NBHCP conservation strategy emphasizes maintaining connectivity between TNBC reserves to allow giant garter snake movement within the Natomas Basin. This species is highlighted for two reasons: 1) giant garter snake is the most prevalent Covered Species within the Basin that requires land/water connectivity to travel within the Basin and 2) if adequate connectivity is provided for giant garter snake, then, it is anticipated that other Covered Species will also be afforded adequate opportunities to migrate within the Basin. The primary opportunity for connectivity between reserves is the system of agricultural canals maintained and operated by RD 1000 and Natomas Mutual." (NBHCP, p. IV-8), including the West Drainage Canal which borders the project and Lone Tree Canal, which runs through the project site and joins the West Drainage Canal.

e. Impacts on Fisherman's Lake Preserve Area and Connectivity to Other Preserves in the NBC. Section IV.C.1.e of the NBHCP requires preserve lands be held in a 2,500-acre preserve and at least three 400 acre preserves. The NBHCP at IV-14 states "In order to ensure adequately sized reserves that will support long-term viability of Covered Species, the NBHCP requires that by the end of the 50-year permits, one habitat block within the reserve system shall be a minimum of 2,500 acres in size and the balance of reserve lands shall be in habitat blocks that are a minimum of 400 acres in size."

The Conservation Strategy states (at NBHCP IV-7):

"TNBC reserves will generally be consolidated into large, biologically viable units with connectivity between individual reserve units."

The Fisherman's Lake preserve has a total of 413 acres. Of the six parcels, only 4 are contiguous (approximately 300 acres). This preserve's success depends on acquiring more land in the area between I-5, Sacramento River, and I-80. Approval of more development in this area will interfere with development of a biologically sound preserve in this part of the Basin.

This preserve is immediately south of the project area and is already affected by neighboring urban areas. This is a crucial but constrained habitat space, less than a mile wide in some parts. At present the project area provides support and habitat value to the Preserve area. The project properties are in farm and open space, host nesting Swainson's Hawks and provide

canal habitat protection for aquatic species. The loss of that buffering and enhancement will hurt the preserve area. That loss cannot be mitigated by preserving land elsewhere because this is part of a wildlife preserve area.

The Fisherman's Lake Preserve will be further negatively impacted by increased human activities, loss and/or degradation of connectivity, and edge effects, if the project is developed. Connectivity is provided primarily through the Lone Tree Canal, included within the project Area and West Drainage Canal which is the southern boundary of the project. Development next to Lone Tree and West Drainage Canals will degrade these canals role in providing habitat for the threatened aquatic Giant Garter Snake and aquatic connectivity within the NBC reserve system. The ability of NBC to acquire contiguous properties to the Fisherman's Lake preserve is critical to the success of this preserve area for multiple species. Development at this site will compromise and degrade

Please consult the North Natomas Community Plan FEIR (1986) for the habitat assessment of the general area of Fisherman's Lake and the City's assurances that the area would be protected from development and its preservation would help mitigate for loss of habitat in the development of the North Natomas Community Plan. These assurances were not superseded by the adoption of the 2003 NBHCP. (See page I-5 of 2003 NBHCP, "All proponents of new development in the City shall comply with the applicable mitigation measures identified in the Mitigation Monitoring Plans approved with each community plan, as well as the measures of this NBHCP.")

f. Impacts on Swainson's Hawk Foraging and Nesting Habitat in the Project Area. The project area has provided Swainson's Hawk foraging and nesting habitat, and if developed, these positive contributions to the conservation of listed species in the Basin will be removed. Please note that the City's adoption of the NBHCP included additional requirements for City developments including no removal of Swainson's Hawk nesting trees (see P. I-27, NBHCP), and all mitigation to take place within the Natomas Basin. (See IA, 5.3 In-Basin Acquisition. All Mitigation Lands shall be acquired within the Natomas Basin as provided in the NBHCP.)

The NBHCP at V-3 states:

"In order to generally minimize the impacts of development on Covered Species, the City of Sacramento and Sutter County shall impose the following requirements on Authorized Development when approving Urban Development Permits within the Natomas Basin:

- a. Tree Preservation: Valley oaks and other large trees should be preserved whenever possible. Preserve and restore stands of riparian trees used by Swainson's hawks and other animals for nesting, particularly adjacent to Fisherman's Lake."

See also Section 3.1.2 of the Implementation Agreement entitled " 3.1.2 EXCLUSION OF DEVELOPMENT FROM SWAINSON'S HAWK ZONE" and determine if any portion of the project area is in the Swainson's Haw Zone.

g. Cumulative Impacts on the Natomas Basin Habitat Conservation Plan and the Natomas Basin Conservancy's Ability to Implement the Plan. The DEIR must assess the cumulative impact of this project, along with both all approved and unbuilt development projects and all proposed development projects within the Natomas Basin on the ability of the Natomas Basin HCP to implement the Natomas Basin HCP and its Conservation Policy. This assessment should identify the cumulative loss of habitat with buildout of all existing and proposed projects, the amount of mitigation acres required, the amount of qualified mitigation acres available on the remaining land in within the Natomas Basin HCP, the ratio between mitigation acres required and mitigation acres available, the resulting impact on mitigation land cost, and the ability of the NBC to fund and acquire the required acreage. Finally, the assessment should finally determine how full buildout of the combined projects will impact the listed species that the HCP is supposed to be protecting

7. Drainage Issues must be addressed by the EIR and mitigated.

The project site is the bottom of former Upper American Lake, which was drained for agriculture many years ago. Rainwater and irrigation wastewater drain southward from north of I-5, runs under I-5 via two north-south canals which runs through the project site and join the West Drainage canal, which is the south boundary of the project site. The West drainage canal drains a large area north and west of the project site, runs alongside the project site, passes through the City's Natomas area, eventually joins the Main Drainage Canal, and is pumped up over the Sacramento River levee. The area immediately north of I-5 is former agricultural land which is rapidly being converted to hard-surface industrial and residential development (Greenbriar and Metro Air Park, four square miles total) which can no longer absorb storm water, thereby increasing the volume of storm water run-off which travels southward via the canals into the project site. There is a levee along the south side of the West Drainage Canal, but none on the north side (project site). Shallow flooding of the project site has been observed during heavy rain conditions, from overflow from the canals, plus standing rainwater. Storm water runoff from north of the project site will increase as MetroAirPark and Greenbriar build out and pave over the once-absorbent farmland. The proposed project annexation area will no longer absorb storm water as it paved over by proposed development. The West Drainage Canal is at capacity during major storm events and may be unable to accommodate the additional drainage volume from the project site without risking flooding downstream in the City.

Reclamation District 1000 is responsible for drainage within Natomas Basin. The EIR should include a drainage plan, approved by RD 1000 and paid for by the developer that will provide drainage of storm water during major rain events. This will likely require a new canal from the

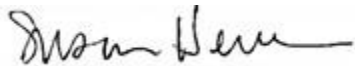
project site to the Sacramento River Levee, and an appropriately sized new pumping plant, at developer expense.

8. The EIR must address the impacts of lights and noise on the neighboring residential neighborhood.

The east boundary of the project site is separated from the adjoining Westlake residential neighborhood by only a 200-foot buffer. Industrial projects, including warehouses and distribution centers, are typically very brightly lighted at night for operations and security reasons. Truck traffic associated with warehouses and distribution centers typically operates day and night. These impacts on neighboring Westlake will be significant and would likely devalue the economic value of these homes. Prospective homebuyers typically avoid areas subject to round-the-clock truck noise and strong floodlights. The EIR must quantify and mitigate for these impacts.

Thank you for this opportunity to comment.

Please notify each of our organizations of any future public hearings and issuance of further documents on this proposal. Our addresses are on the letterhead of this letter.



Susan Herre, President of ECOS



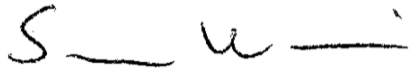
Barbara Leary Chair, Sacramento Group, Sierra Club



James P. Pachl, Friends of the Swainson's Hawk



Judith L. Lamare, Friends of the Swainson's Hawk



Sean Wirth, Co-Chair Habitat 2020
Sierra Club MLC Conservation Chair



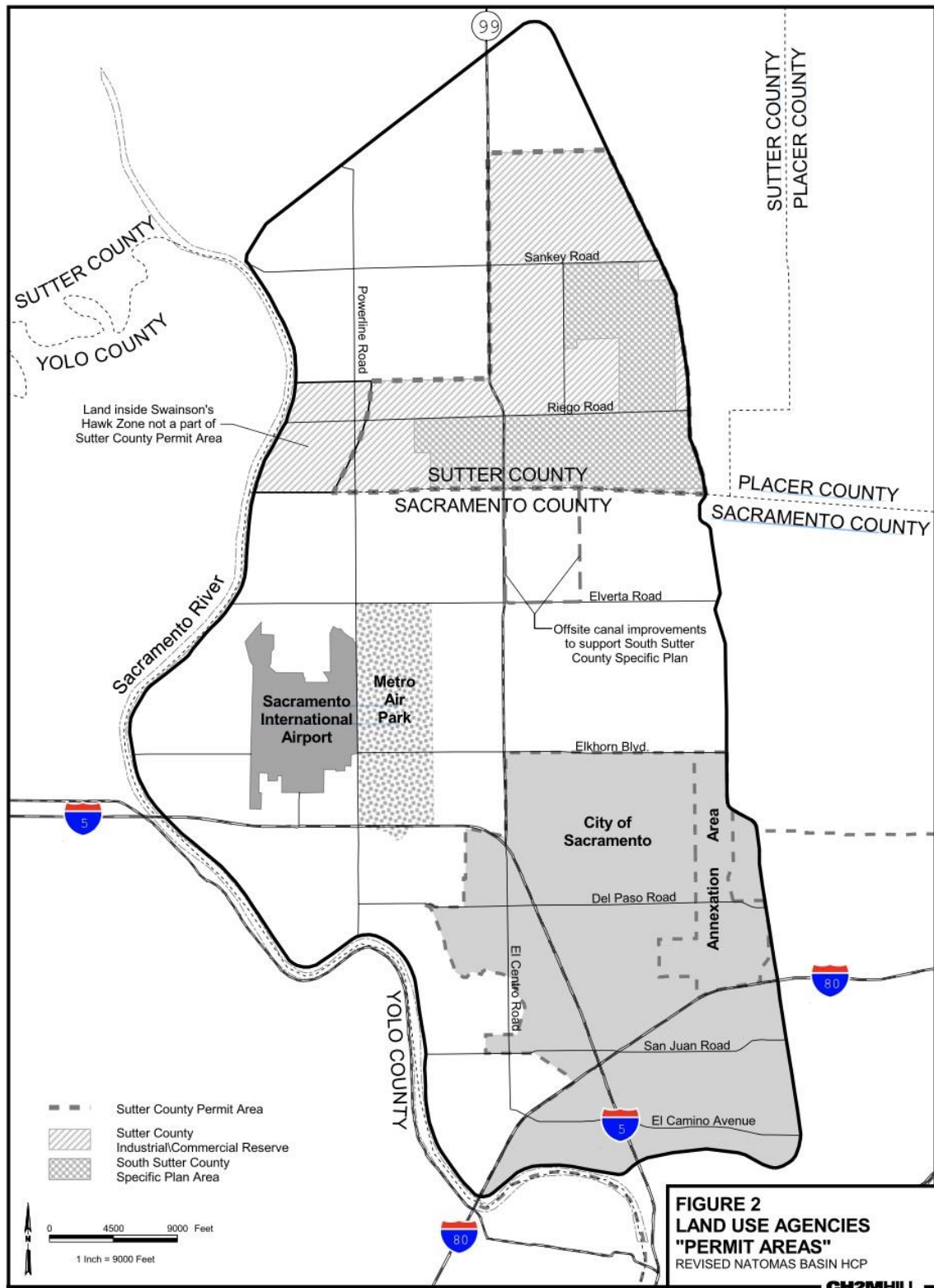
William Bianco, President, Sacramento Audubon Society

CC: Dylan Wood, and Tanya Sheya, CDFW
Kevin Thomas, CDFW
Kelley Barker, CDFDW
Michelle Haven USFWS
Nick Avdis, Thomas Law Group
Nathaniel Hagedorn, CEO Northpoint Development

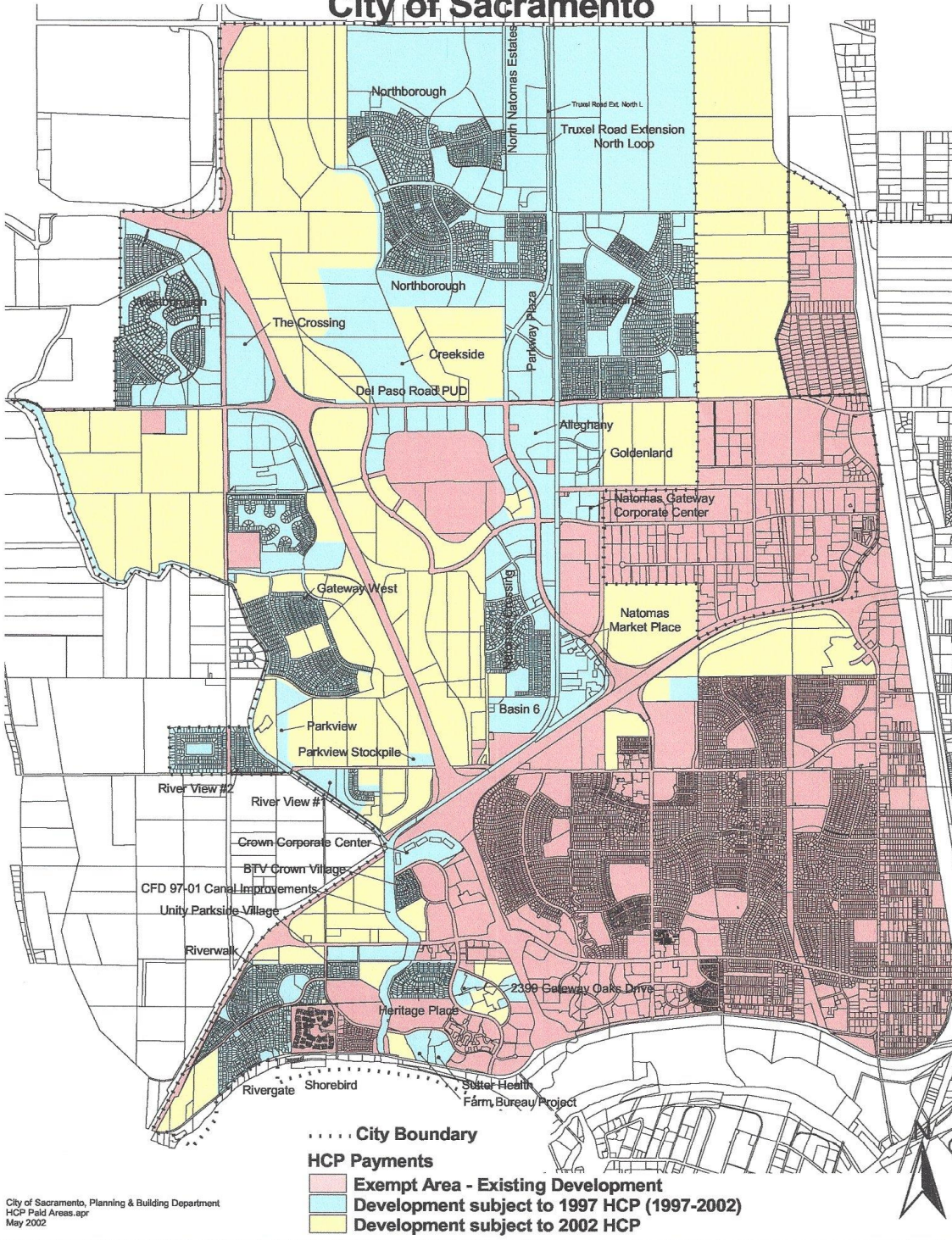
Attachments:

City General Plan Update, draft Land Use Plan download at
<http://www.cityofsacramento.org/Community-Development/Planning/Major-Projects/General-Plan>

Figure 2, NBHCP
2003 NBHCP Implementation Agreement p.1 and Exhibit B



Baseline Map - Exhibit B City of Sacramento



JEFFREY P. PHILLIPS, D.C.

Jeffrey P. Phillips Chiropractic, Inc.

375 W. Main Street, Suite D
Woodland, CA 95695
(530) 666-2526

March 16, 2022

Scott Johnson, Senior Planner
City of Sacramento Community Development Department
300 Richards Blvd., Third Floor
Sacramento, CA 95811

RE: Airport South Industrial Project

Dear Mr Johnson,

I live in the Westlake community. I am an avid supporter of development for jobs, and taxes for the county and city. When Walmart and Amazon built the fulfillment centers I thought it was great for the same reasons. I have used Bayou Way and Del Paso as it is shorter and easier for me to make my commute to Woodland where my office is located. If you have ever driven on Bayou Way or Del Paso after going west past the Westlake Community it is very apparent neither of these roads can handle all the traffic now being used to allow all the workers going to and froe from these two warehouses. The roads should not be having this much traffic on them. I do not understand why with the new Metro PKWY opening up that all these workers are not required by Amazon & Walmart to use rather than the roads not made for all this traffic

With this new project I would have to say I am opposed to any new developments without serious thought to improve the infrastructure to handle the additional traffic. I Cannot believe I am opposing development but the Walmart and Amazon warehouses was not thought through very well at all to determine the roads needed for all the extra traffic

Sincerely,



Jeff Phillips
710 hawkcrest Circle
Sacramento, CA 95835

From: jschori@surewest.net
To: [Scott Johnson](#)
Subject: Airport South Industrial Project scoping meeting last night
Date: Thursday, March 17, 2022 8:53:23 AM

Please add my husband Case Butterman and me, Jan Schori, to your list of interested parties in this project for the purpose of receiving all notices and documents related to the project's approval seeking process. Our address is 191 Lanfranco Circle, Sacramento, CA 95835 (directly across from the proposed project, in the Avenues subdivision of Westlake). Also, while walking I met one of my neighbors late last week who knew nothing about the scoping meeting, as the USPS centralized mailbox for half of the houses on Lanfranco was vandalized and mail is not being delivered apparently. I gave him a copy of my notice but you may wish to send another notice to be sure that people are receiving appropriate communications regarding this proposal. Thank you--Jan Schori

From: [Nick Zuvela](#)
To: [Scott Johnson](#)
Subject: Airport South Industrial Project/ Flood.
Date: Friday, March 18, 2022 10:33:12 AM

Hello Scott,

If the Airport South project proceeds to completion, in the event of each of a 10, 25, 50, and 100 year rain/snowmelt/flood event:

what are the projected water depths, AND, what is the increased percentage of flood depths (over and above no project) for:

the Westlake subdivision in its entirety;

my residence at 24 Parnell Ct, 95835;

It seems logical all this project asphalt will exacerbate flooding from extreme downpours or sustained floodwater levee topping, in spite of any planned catch basins.

We are already in a very low basin. Any further loss of ground soil in Natomas seems not wise flood planning and could lead to life threatening flood.

Put on a different hat here. Please educate me in some detail re what the flood danger arguments say about this project exacerbating flood potential for my home and Westlake in general.

Thanks,
Nick Zuvela
916-212-9090

From: [Brian Thornton](#)
To: [Scott Johnson](#)
Cc: [Archana Maniar](#)
Subject: Airport South Industrial Project
Date: Saturday, March 26, 2022 12:04:01 PM

Dear Mr. Johnson, I am providing my comments regarding the Airport South Industrial Project.

I have lived in Natomas since the year 2000 initially near Arena Blvd but within the Westlake Community since 2006. As you are well aware, Natomas is undergoing significant development previously hampered by the building moratorium pending levee system upgrades which have almost been completed.

Foremost on most residents minds presently is the incredible growth without any concomitant infrastructure development. Over the last few years we have witnessed significant increases in high density apartment housing, hotel development and large commercial projects such as the Centene facility along I-5. In more recent months we have learned of plans to bring a large teaching hospital to the prior Arco Arena site and a Natomas Costco facility despite having two relatively close Costco sites in Woodland and Sacramento. Although many of these projects have not yet shown their full impact on the area due to the Pandemic (working from home) and projects pending completion, we have seen a dramatic worsening of traffic congestion, failing roads with poor maintenance and decline in our quality of life.

As an avid cyclist, I have been cycling along the back roads and Garden Highway for many years now and have watched as the Metro Airpark has filled in with warehouses and semi trucks worsening traffic and making roads more dangerous for cyclists.

I was dismayed with the proposed annexation of land for the Airport South Industrial project and what that would mean for our community. We do not need additional hotel growth, more warehouses and/or a truck stop backing right up to our community (one is already present 2-3 miles away) and within earshot of the recently completed Paso Verde elementary school. This project will ruin the value of the homes in Westlake (especially along the western edge of the community), add to air and noise pollution to the area and be an eyesore. Presently, Bayou road which runs along the north side of our community has the occasional semi truck but I can only image how much more traffic will surround our community on surface streets and the freeway if this project progresses. This project will further endanger the cyclists who have long enjoyed this area and the numerous migratory birds that utilize this space as well.

Currently, Metro Airpark continues to have significant open space and multiple warehouses that are not even being utilized and any further expansion should be directed to this area or the areas further west of the Westlake community. Warehouses abutting residential communities will result in decay within the community as people seek alternate living options.

I strongly oppose the proposed annexation and, as a resident, taxpayer and small

business owner, my views and the views of the community should matter. Development at the expense of our quality of life is not acceptable. When combined with the impact of recurrent wildfire and air quality issues in this area, I could easily see myself moving should this project proceed.

Thank you for taking the time to consider these points.

Sincerely,

Brian Thornton, MD, CFO
Summit Nephrology Medical Group

Archana Maniar, MD
Professor of Medicine UC Davis School of Medicine

321 Hebron Circle
Sacramento, CA 95835
916-524-2734

From: [Archana Maniar](#)
To: [Brian Thornton](#); [Scott Johnson](#)
Cc: [Cheryle Hodge](#); [Henriquez, Jose](#); [Michael Hanebutt](#)
Subject: Re: Airport South Industrial Project
Date: Monday, March 28, 2022 8:08:04 PM

All,

I also wanted to express my concerns regarding the Airport South Industrial Project.

I too am a long-standing member of the Natomas community. The quality of life in our residential area of Natomas is significantly threatened by the proposed development. There are plenty of warehouses North of I-5, hotels in North Natomas, and a truck stop 2-5 minutes from this site. Placing a major industrial development near families, an elementary school and an area that is one of the few remaining wildlife corridors would severely impact our quality of life and the neighborhood/area at large. Furthermore, building an industrial site will undoubtedly impact housing values as these type of commercial properties tend to degrade the neighborhood/community feel of a neighborhood. We also have health concerns regarding what additional truck traffic so close to a neighborhood and a school. As someone who commutes outside of Natomas to two hospitals in this area, with all of the ongoing construction and the additional proposed project, my already considerable commute is only going to get longer further hampering quality of life.

In sum, these proposed changes threaten to degrade the Westlake community and cause us to rethink whether this area is the right place for us to raise our family. A community is about the well-being of children and families first and this expansion does not achieve this goal. If additional warehouse space or hotels are needed, there are other areas that are nonresidential in close proximity that would serve the purpose without impacting the established Westlake Community.

I appreciate your time and consideration.

Sincerely,

Archana Maniar MD

Professor of Medicine, Division of Infectious Diseases

UC Davis School of Medicine

On Monday, March 28, 2022, 03:10:19 PM PDT, Scott Johnson <srjohnson@cityofsacramento.org> wrote:

From: Brian Thornton <bdthornton@sbcglobal.net>
Sent: Saturday, March 26, 2022 12:04 PM
To: Scott Johnson <SRJohnson@cityofsacramento.org>
Cc: Archana Maniar <ahmaniar@sbcglobal.net>
Subject: Airport South Industrial Project

Dear Mr. Johnson, I am providing my comments regarding the Airport South Industrial Project.

I have lived in Natomas since the year 2000 initially near Arena Blvd but within the

Westlake Community since 2006. As you are well aware, Natomas is undergoing significant development previously hampered by the building moratorium pending levee system upgrades which have almost been completed.

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Thank you for taking the time to consider these points.

Sincerely,

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Summit Nephrology Medical Group

Archana Maniar, MD

Professor of Medicine UC Davis School of Medicine

321 Hebron Circle

Sacramento, CA 95835

916-524-2734

APPENDIX C

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2029
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage and lot acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per applicant-provided questionnaire.

Grading - Based on applicant provided AQ questionnaire.

Vehicle Trips - Based on project-specific information provided by DKS.

Water Mitigation - Compliant with MWELO.

Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	180.00	50.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	330.00	1,000.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1347	1.6738	1.0528	3.5500e-003	1.1530	0.0600	1.2130	0.3806	0.0553	0.4359	0.0000	328.2200	328.2200	0.0646	0.0226	336.5686
2024	0.4717	6.8205	4.2208	0.0185	1.5974	0.1941	1.7914	0.5721	0.1792	0.7514	0.0000	1,740.3898	1,740.3898	0.2716	0.1608	1,795.0816
2025	6.1132	7.5458	10.9585	0.0456	3.7601	0.1133	3.8734	0.9383	0.1068	1.0451	0.0000	4,339.2314	4,339.2314	0.1803	0.3538	4,449.1700
2026	7.7926	8.9132	12.7041	0.0549	4.0723	0.1256	4.1979	1.1025	0.1188	1.2212	0.0000	5,248.5991	5,248.5991	0.1957	0.4302	5,381.6861
2027	7.7290	8.7394	12.2254	0.0536	4.0722	0.1240	4.1962	1.1024	0.1173	1.2197	0.0000	5,140.8665	5,140.8665	0.1890	0.4198	5,270.6954
2028	7.6416	8.5622	11.7815	0.0522	4.0566	0.1219	4.1785	1.0982	0.1153	1.2135	0.0000	5,022.8095	5,022.8095	0.1827	0.4088	5,149.1895
2029	0.5135	0.3004	0.4514	1.9300e-003	0.1611	4.5000e-003	0.1656	0.0435	4.2700e-003	0.0478	0.0000	186.4646	186.4646	6.5300e-003	0.0142	190.8559
Maximum	7.7926	8.9132	12.7041	0.0549	4.0723	0.1941	4.1979	1.1025	0.1792	1.2212	0.0000	5,248.5991	5,248.5991	0.2716	0.4302	5,381.6861

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1347	1.6738	1.0528	3.5500e-003	1.1530	0.0600	1.2130	0.3806	0.0553	0.4359	0.0000	328.2197	328.2197	0.0646	0.0226	336.5684
2024	0.4717	6.8205	4.2208	0.0185	1.5974	0.1941	1.7914	0.5721	0.1792	0.7514	0.0000	1,740.3889	1,740.3889	0.2716	0.1608	1,795.0808
2025	6.1132	7.5458	10.9585	0.0456	3.7601	0.1133	3.8734	0.9383	0.1068	1.0451	0.0000	4,339.2310	4,339.2310	0.1803	0.3538	4,449.1696
2026	7.7926	8.9132	12.7041	0.0549	4.0723	0.1256	4.1979	1.1025	0.1188	1.2212	0.0000	5,248.5987	5,248.5987	0.1957	0.4302	5,381.6857
2027	7.7290	8.7394	12.2254	0.0536	4.0722	0.1240	4.1962	1.1024	0.1173	1.2197	0.0000	5,140.8661	5,140.8661	0.1890	0.4198	5,270.6949
2028	7.6416	8.5622	11.7815	0.0522	4.0566	0.1219	4.1785	1.0982	0.1153	1.2135	0.0000	5,022.8091	5,022.8091	0.1827	0.4088	5,149.1891
2029	0.5135	0.3004	0.4514	1.9300e-003	0.1611	4.5000e-003	0.1656	0.0435	4.2700e-003	0.0478	0.0000	186.4646	186.4646	6.5300e-003	0.0142	190.8559
Maximum	7.7926	8.9132	12.7041	0.0549	4.0723	0.1941	4.1979	1.1025	0.1792	1.2212	0.0000	5,248.5987	5,248.5987	0.2716	0.4302	5,381.6857

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	1.1982	1.1982
2	12-1-2023	2-29-2024	1.8532	1.8532
3	3-1-2024	5-31-2024	1.8099	1.8099
4	6-1-2024	8-31-2024	1.7934	1.7934

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	9-1-2024	11-30-2024	1.8064	1.8064
6	12-1-2024	2-28-2025	0.8869	0.8869
7	3-1-2025	5-31-2025	3.4390	3.4390
8	6-1-2025	8-31-2025	4.2238	4.2238
9	9-1-2025	11-30-2025	4.2542	4.2542
10	12-1-2025	2-28-2026	4.2005	4.2005
11	3-1-2026	5-31-2026	4.1954	4.1954
12	6-1-2026	8-31-2026	4.1574	4.1574
13	9-1-2026	11-30-2026	4.1870	4.1870
14	12-1-2026	2-28-2027	4.1376	4.1376
15	3-1-2027	5-31-2027	4.1349	4.1349
16	6-1-2027	8-31-2027	4.0977	4.0977
17	9-1-2027	11-30-2027	4.1264	4.1264
18	12-1-2027	2-29-2028	4.1280	4.1280
19	3-1-2028	5-31-2028	4.0832	4.0832
20	6-1-2028	8-31-2028	4.0466	4.0466
21	9-1-2028	11-30-2028	4.0747	4.0747
22	12-1-2028	2-28-2029	2.1512	2.1512
		Highest	4.2542	4.2542

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Energy	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	15,720.8882	15,720.8882	1.1743	0.2026	15,810.6260
Mobile	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Offroad	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Waste						0.0000	0.0000		0.0000	0.0000	1,362.6276	0.0000	1,362.6276	80.5290	0.0000	3,375.8522
Water						0.0000	0.0000		0.0000	0.0000	428.7769	980.9625	1,409.7394	1.5662	0.9434	1,730.0316
Total	29.4351	24.1882	51.8995	0.0851	3.4330	1.2284	4.6614	0.9174	1.1515	2.0689	1,791.4045	22,645.6917	24,437.0962	84.5807	1.3849	26,964.3114

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Energy	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	15,720.8882	15,720.8882	1.1743	0.2026	15,810.6260
Mobile	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Offroad	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Waste						0.0000	0.0000		0.0000	0.0000	1,362.6276	0.0000	1,362.6276	80.5290	0.0000	3,375.8522
Water						0.0000	0.0000		0.0000	0.0000	428.7769	980.8720	1,409.6489	1.5662	0.9434	1,729.9407
Total	29.4351	24.1882	51.8995	0.0851	3.4330	1.2284	4.6614	0.9174	1.1515	2.0689	1,791.4045	22,645.6013	24,437.0058	84.5807	1.3849	26,964.2204

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/3/2025	3/13/2025	5	50
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000
5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000

Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4914	0.0000	0.4914	0.2526	0.0000	0.2526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
Total	0.0665	0.6881	0.4561	9.5000e-004	0.4914	0.0317	0.5231	0.2526	0.0291	0.2817	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4914	0.0000	0.4914	0.2526	0.0000	0.2526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
Total	0.0665	0.6881	0.4561	9.5000e-004	0.4914	0.0317	0.5231	0.2526	0.0291	0.2817	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6171	0.0000	0.6171	0.1159	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.6213	0.5049	1.1200e-003		0.0256	0.0256		0.0236	0.0236	0.0000	98.1634	98.1634	0.0318	0.0000	98.9571
Total	0.0598	0.6213	0.5049	1.1200e-003	0.6171	0.0256	0.6427	0.1159	0.0236	0.1395	0.0000	98.1634	98.1634	0.0318	0.0000	98.9571

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0600e-003	0.3630	0.0729	1.4300e-003	0.0386	2.6500e-003	0.0412	0.0106	2.5300e-003	0.0131	0.0000	141.6575	141.6575	5.6400e-003	0.0225	148.4918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.4000e-004	8.3900e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6600e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	2.1211	2.1211	7.0000e-005	6.0000e-005	2.1408
Total	7.0900e-003	0.3636	0.0813	1.4500e-003	0.0412	2.6600e-003	0.0439	0.0113	2.5400e-003	0.0139	0.0000	143.7785	143.7785	5.7100e-003	0.0225	150.6326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6171	0.0000	0.6171	0.1159	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.6213	0.5049	1.1200e-003		0.0256	0.0256		0.0236	0.0236	0.0000	98.1633	98.1633	0.0318	0.0000	98.9570
Total	0.0598	0.6213	0.5049	1.1200e-003	0.6171	0.0256	0.6427	0.1159	0.0236	0.1395	0.0000	98.1633	98.1633	0.0318	0.0000	98.9570

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0600e-003	0.3630	0.0729	1.4300e-003	0.0386	2.6500e-003	0.0412	0.0106	2.5300e-003	0.0131	0.0000	141.6575	141.6575	5.6400e-003	0.0225	148.4918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.4000e-004	8.3900e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6600e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	2.1211	2.1211	7.0000e-005	6.0000e-005	2.1408
Total	7.0900e-003	0.3636	0.0813	1.4500e-003	0.0412	2.6600e-003	0.0439	0.0113	2.5400e-003	0.0139	0.0000	143.7785	143.7785	5.7100e-003	0.0225	150.6326

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2976	0.0000	1.2976	0.4899	0.0000	0.4899	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4216	4.2414	3.6317	8.1300e-003		0.1749	0.1749		0.1609	0.1609	0.0000	714.2058	714.2058	0.2310	0.0000	719.9805
Total	0.4216	4.2414	3.6317	8.1300e-003	1.2976	0.1749	1.4725	0.4899	0.1609	0.6509	0.0000	714.2058	714.2058	0.2310	0.0000	719.9805

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0431	2.5750	0.5323	0.0102	0.2806	0.0190	0.2996	0.0771	0.0182	0.0953	0.0000	1,011.1328	1,011.1328	0.0402	0.1603	1,059.9166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0300e-003	4.1400e-003	0.0569	1.6000e-004	0.0192	1.0000e-004	0.0193	5.1200e-003	9.0000e-005	5.2100e-003	0.0000	15.0512	15.0512	4.4000e-004	4.1000e-004	15.1845
Total	0.0501	2.5791	0.5891	0.0104	0.2998	0.0191	0.3189	0.0822	0.0183	0.1005	0.0000	1,026.1840	1,026.1840	0.0406	0.1608	1,075.1012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2976	0.0000	1.2976	0.4899	0.0000	0.4899	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4216	4.2414	3.6317	8.1300e-003		0.1749	0.1749		0.1609	0.1609	0.0000	714.2049	714.2049	0.2310	0.0000	719.9796
Total	0.4216	4.2414	3.6317	8.1300e-003	1.2976	0.1749	1.4725	0.4899	0.1609	0.6509	0.0000	714.2049	714.2049	0.2310	0.0000	719.9796

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0431	2.5750	0.5323	0.0102	0.2806	0.0190	0.2996	0.0771	0.0182	0.0953	0.0000	1,011.1328	1,011.1328	0.0402	0.1603	1,059.9166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0300e-003	4.1400e-003	0.0569	1.6000e-004	0.0192	1.0000e-004	0.0193	5.1200e-003	9.0000e-005	5.2100e-003	0.0000	15.0512	15.0512	4.4000e-004	4.1000e-004	15.1845
Total	0.0501	2.5791	0.5891	0.0104	0.2998	0.0191	0.3189	0.0822	0.0183	0.1005	0.0000	1,026.1840	1,026.1840	0.0406	0.1608	1,075.1012

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5147	0.0000	0.5147	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0279	0.0263	6.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947
Total	2.9000e-003	0.0279	0.0263	6.0000e-005	0.5147	1.1300e-003	0.5158	0.0596	1.0400e-003	0.0606	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0191	4.0800e-003	8.0000e-005	2.1400e-003	1.4000e-004	2.2800e-003	5.9000e-004	1.4000e-004	7.2000e-004	0.0000	7.5569	7.5569	3.0000e-004	1.2000e-003	7.9216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1121	0.1121	0.0000	0.0000	0.1131
Total	3.7000e-004	0.0192	4.4900e-003	8.0000e-005	2.2900e-003	1.4000e-004	2.4300e-003	6.3000e-004	1.4000e-004	7.6000e-004	0.0000	7.6690	7.6690	3.0000e-004	1.2000e-003	8.0346

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5147	0.0000	0.5147	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0279	0.0263	6.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947
Total	2.9000e-003	0.0279	0.0263	6.0000e-005	0.5147	1.1300e-003	0.5158	0.0596	1.0400e-003	0.0606	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0191	4.0800e-003	8.0000e-005	2.1400e-003	1.4000e-004	2.2800e-003	5.9000e-004	1.4000e-004	7.2000e-004	0.0000	7.5569	7.5569	3.0000e-004	1.2000e-003	7.9216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1121	0.1121	0.0000	0.0000	0.1131
Total	3.7000e-004	0.0192	4.4900e-003	8.0000e-005	2.2900e-003	1.4000e-004	2.4300e-003	6.3000e-004	1.4000e-004	7.6000e-004	0.0000	7.6690	7.6690	3.0000e-004	1.2000e-003	8.0346

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0229	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4528
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0662	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4528

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200
Total	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0229	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4527
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0662	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4527

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200
Total	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801
Total	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1379	5.3709	1.5955	0.0210	0.6715	0.0288	0.7003	0.1941	0.0275	0.2216	0.0000	2,045.440 3	2,045.440 3	0.0500	0.3013	2,136.488 9
Worker	0.7402	0.4164	5.9643	0.0174	2.1582	0.0105	2.1687	0.5740	9.6600e-003	0.5837	0.0000	1,647.289 2	1,647.289 2	0.0451	0.0430	1,661.234 5
Total	0.8781	5.7873	7.5598	0.0384	2.8297	0.0393	2.8690	0.7681	0.0372	0.8053	0.0000	3,692.729 6	3,692.729 6	0.0951	0.3444	3,797.723 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798
Total	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1379	5.3709	1.5955	0.0210	0.6715	0.0288	0.7003	0.1941	0.0275	0.2216	0.0000	2,045.440 3	2,045.440 3	0.0500	0.3013	2,136.488 9
Worker	0.7402	0.4164	5.9643	0.0174	2.1582	0.0105	2.1687	0.5740	9.6600e-003	0.5837	0.0000	1,647.289 2	1,647.289 2	0.0451	0.0430	1,661.234 5
Total	0.8781	5.7873	7.5598	0.0384	2.8297	0.0393	2.8690	0.7681	0.0372	0.8053	0.0000	3,692.729 6	3,692.729 6	0.0951	0.3444	3,797.723 3

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1662	6.5709	1.9528	0.0257	0.8385	0.0350	0.8736	0.2424	0.0335	0.2759	0.0000	2,502.9564	2,502.9564	0.0610	0.3695	2,614.5828
Worker	0.8720	0.4713	7.0142	0.0211	2.6951	0.0125	2.7076	0.7168	0.0115	0.7283	0.0000	2,008.2946	2,008.2946	0.0514	0.0506	2,024.6604
Total	1.0382	7.0422	8.9671	0.0468	3.5337	0.0475	3.5812	0.9592	0.0450	1.0042	0.0000	4,511.2510	4,511.2510	0.1124	0.4201	4,639.2432

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1662	6.5709	1.9528	0.0257	0.8385	0.0350	0.8736	0.2424	0.0335	0.2759	0.0000	2,502.9564	2,502.9564	0.0610	0.3695	2,614.5828
Worker	0.8720	0.4713	7.0142	0.0211	2.6951	0.0125	2.7076	0.7168	0.0115	0.7283	0.0000	2,008.2946	2,008.2946	0.0514	0.0506	2,024.6604
Total	1.0382	7.0422	8.9671	0.0468	3.5337	0.0475	3.5812	0.9592	0.0450	1.0042	0.0000	4,511.2510	4,511.2510	0.1124	0.4201	4,639.2432

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1608	6.4460	1.9190	0.0251	0.8385	0.0342	0.8727	0.2423	0.0327	0.2751	0.0000	2,449.2957	2,449.2957	0.0594	0.3622	2,558.7236
Worker	0.8235	0.4306	6.6435	0.0204	2.6951	0.0118	2.7070	0.7168	0.0109	0.7277	0.0000	1,963.2294	1,963.2294	0.0472	0.0480	1,978.7119
Total	0.9843	6.8765	8.5625	0.0456	3.5336	0.0460	3.5796	0.9592	0.0436	1.0028	0.0000	4,412.5251	4,412.5251	0.1066	0.4102	4,537.4355

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1608	6.4460	1.9190	0.0251	0.8385	0.0342	0.8727	0.2423	0.0327	0.2751	0.0000	2,449.2957	2,449.2957	0.0594	0.3622	2,558.7236
Worker	0.8235	0.4306	6.6435	0.0204	2.6951	0.0118	2.7070	0.7168	0.0109	0.7277	0.0000	1,963.2294	1,963.2294	0.0472	0.0480	1,978.7119
Total	0.9843	6.8765	8.5625	0.0456	3.5336	0.0460	3.5796	0.9592	0.0436	1.0028	0.0000	4,412.5251	4,412.5251	0.1066	0.4102	4,537.4355

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1554	6.3177	1.8846	0.0245	0.8352	0.0334	0.8685	0.2414	0.0319	0.2733	0.0000	2,389.8098	2,389.8098	0.0580	0.3540	2,496.7475
Worker	0.7761	0.3954	6.3097	0.0198	2.6848	0.0111	2.6959	0.7141	0.0102	0.7242	0.0000	1,915.4872	1,915.4872	0.0433	0.0457	1,930.1766
Total	0.9315	6.7132	8.1943	0.0443	3.5200	0.0444	3.5644	0.9555	0.0421	0.9975	0.0000	4,305.2970	4,305.2970	0.1013	0.3996	4,426.9241

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1554	6.3177	1.8846	0.0245	0.8352	0.0334	0.8685	0.2414	0.0319	0.2733	0.0000	2,389.8098	2,389.8098	0.0580	0.3540	2,496.7475
Worker	0.7761	0.3954	6.3097	0.0198	2.6848	0.0111	2.6959	0.7141	0.0102	0.7242	0.0000	1,915.4872	1,915.4872	0.0433	0.0457	1,930.1766
Total	0.9315	6.7132	8.1943	0.0443	3.5200	0.0444	3.5644	0.9555	0.0421	0.9975	0.0000	4,305.2970	4,305.2970	0.1013	0.3996	4,426.9241

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977
Total	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2300e-003	0.2154	0.0644	8.3000e-004	0.0289	1.1300e-003	0.0300	8.3500e-003	1.0800e-003	9.4400e-003	0.0000	81.1011	81.1011	1.9700e-003	0.0120	84.7353
Worker	0.0254	0.0127	0.2092	6.7000e-004	0.0929	3.6000e-004	0.0933	0.0247	3.3000e-004	0.0251	0.0000	65.0539	65.0539	1.3900e-003	1.5200e-003	65.5409
Total	0.0306	0.2281	0.2736	1.5000e-003	0.1219	1.4900e-003	0.1233	0.0331	1.4100e-003	0.0345	0.0000	146.1550	146.1550	3.3600e-003	0.0136	150.2762

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977
Total	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2300e-003	0.2154	0.0644	8.3000e-004	0.0289	1.1300e-003	0.0300	8.3500e-003	1.0800e-003	9.4400e-003	0.0000	81.1011	81.1011	1.9700e-003	0.0120	84.7353
Worker	0.0254	0.0127	0.2092	6.7000e-004	0.0929	3.6000e-004	0.0933	0.0247	3.3000e-004	0.0251	0.0000	65.0539	65.0539	1.3900e-003	1.5200e-003	65.5409
Total	0.0306	0.2281	0.2736	1.5000e-003	0.1219	1.4900e-003	0.1233	0.0331	1.4100e-003	0.0345	0.0000	146.1550	146.1550	3.3600e-003	0.0136	150.2762

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4049	25.4049	1.3900e-003	0.0000	25.4395
Total	4.8810	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4049	25.4049	1.3900e-003	0.0000	25.4395

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249
Total	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4048	25.4048	1.3900e-003	0.0000	25.4395
Total	4.8810	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4048	25.4048	1.3900e-003	0.0000	25.4395

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249
Total	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441
Total	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441
Total	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609
Total	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609
Total	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3550					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	6.3772	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608
Total	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3550					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	6.3772	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608
Total	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6200e-003	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289
Total	0.4660	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531
Total	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6200e-003	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289
Total	0.4660	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531
Total	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Unmitigated	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11,955.6206	11,955.6206	1.1021	0.1336	12,022.9832
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11,955.6206	11,955.6206	1.1021	0.1336	12,022.9832
NaturalGas Mitigated	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427
NaturalGas Unmitigated	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2806.82	2.0000e-005	1.4000e-004	1.2000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1498	0.1498	0.0000	0.0000	0.1507
Industrial Park	6.75544e+007	0.3643	3.3115	2.7817	0.0199		0.2517	0.2517		0.2517	0.2517	0.0000	3,604.9606	3,604.9606	0.0691	0.0661	3,626.3831
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2806.82	2.0000e-005	1.4000e-004	1.2000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1498	0.1498	0.0000	0.0000	0.1507
Industrial Park	6.75544e+007	0.3643	3.3115	2.7817	0.0199		0.2517	0.2517		0.2517	0.2517	0.0000	3,604.9606	3,604.9606	0.0691	0.0661	3,626.3831
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691.428	0.1123	1.0000e-005	0.0000	0.1129
Industrial Park	7.23426e+007	11,746.7660	1.0829	0.1313	11,812.9519
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		11,955.6206	1.1021	0.1336	12,022.9832

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691.428	0.1123	1.0000e-005	0.0000	0.1129
Industrial Park	7.23426e+007	11,746.7660	1.0829	0.1313	11,812.9519
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		11,955.6206	1.1021	0.1336	12,022.9832

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Unmitigated	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4442					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	20.5182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0106	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Total	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4442					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	20.5182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0106	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Total	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.6489	1.5662	0.9434	1,729.9407
Unmitigated	1,409.7394	1.5662	0.9434	1,730.0316

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1203.54 / 0	1,399.5507	1.5554	0.9369	1,717.6276
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,409.7394	1.5662	0.9434	1,730.0316

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1203.54 / 0	1,399.5507	1.5554	0.9369	1,717.6276
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,409.6489	1.5662	0.9434	1,729.9407

8.0 Waste Detail

8.1 Mitigation Measures Waste

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,362.627 6	80.5290	0.0000	3,375.852 2
Unmitigated	1,362.627 6	80.5290	0.0000	3,375.852 2

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	6453.58	1,310.018 4	77.4199	0.0000	3,245.515 2
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,362.627 6	80.5290	0.0000	3,375.852 2

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	6453.58	1,310.0184	77.4199	0.0000	3,245.5152
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,362.6276	80.5290	0.0000	3,375.8522

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Total	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included
Sacramento Metropolitan AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2029
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	180.00	50.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	330.00	1,000.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.7328	53.5873	32.6150	0.1430	19.7939	1.5721	21.0607	10.1388	1.4517	11.3042	0.0000	14,826.78 23	14,826.78 23	2.2940	1.3786	15,294.95 91
2024	3.6170	50.9642	32.2622	0.1413	11.7736	1.4812	13.2547	4.3305	1.3680	5.6985	0.0000	14,654.57 10	14,654.57 10	2.2854	1.3520	15,114.60 89
2025	61.7474	66.8017	112.5459	0.4500	32.2797	1.2738	33.2534	8.7116	1.1771	9.6326	0.0000	47,241.40 82	47,241.40 82	2.2793	3.6879	48,382.47 37
2026	61.1297	65.4010	107.4953	0.4389	32.2790	0.9614	33.2404	8.7114	0.9093	9.6207	0.0000	46,260.23 60	46,260.23 60	1.6230	3.6007	47,373.80 49
2027	60.5618	64.1499	103.2045	0.4283	32.2784	0.9490	33.2273	8.7112	0.8977	9.6088	0.0000	45,303.29 97	45,303.29 97	1.5679	3.5148	46,389.90 72
2028	60.0461	63.1106	99.6443	0.4185	32.2778	0.9369	33.2147	8.7110	0.8863	9.5973	0.0000	44,427.96 65	44,427.96 65	1.5221	3.4362	45,490.01 64
2029	59.5439	62.1670	96.5766	0.4096	32.2773	0.9252	33.2026	8.7108	0.8754	9.5862	0.0000	43,626.14 59	43,626.14 59	1.4815	3.3643	44,665.73 45
Maximum	61.7474	66.8017	112.5459	0.4500	32.2797	1.5721	33.2534	10.1388	1.4517	11.3042	0.0000	47,241.40 82	47,241.40 82	2.2940	3.6879	48,382.47 37

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	172.3703	152.2217	309.2347	0.5168	19.5314	7.8445	27.3759	5.2046	7.3341	12.5388	0.0000	63,685.1862	63,685.1862	9.3390	1.8064	64,456.9799

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	172.3703	152.2217	309.2347	0.5168	19.5314	7.8445	27.3759	5.2046	7.3341	12.5388	0.0000	63,685.1862	63,685.1862	9.3390	1.8064	64,456.9799

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	
3	Paving	Paving	1/3/2025	3/13/2025	5	50	
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000	

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000
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Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960		6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3437	19.0393	4.0187	0.0795	2.2088	0.1468	2.3556	0.6049	0.1405	0.7453		8,672.9648	8,672.9648	0.3459	1.3751	9,091.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.4111	19.0717	4.5638	0.0809	2.3610	0.1476	2.5086	0.6452	0.1412	0.7864		8,815.3045	8,815.3045	0.3498	1.3786	9,234.8755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3437	19.0393	4.0187	0.0795	2.2088	0.1468	2.3556	0.6049	0.1405	0.7453		8,672.9648	8,672.9648	0.3459	1.3751	9,091.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.4111	19.0717	4.5638	0.0809	2.3610	0.1476	2.5086	0.6452	0.1412	0.7864		8,815.3045	8,815.3045	0.3498	1.3786	9,234.8755

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141		6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3359	18.5583	4.0335	0.0779	2.2083	0.1450	2.3533	0.6047	0.1388	0.7434		8,506.0718	8,506.0718	0.3382	1.3488	8,916.4606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.3989	18.5872	4.5394	0.0793	2.3604	0.1458	2.5062	0.6450	0.1394	0.7844		8,644.8223	8,644.8223	0.3418	1.3520	9,056.2684

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3359	18.5583	4.0335	0.0779	2.2083	0.1450	2.3533	0.6047	0.1388	0.7434		8,506.0718	8,506.0718	0.3382	1.3488	8,916.4606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.3989	18.5872	4.5394	0.0793	2.3604	0.1458	2.5062	0.6450	0.1394	0.7844		8,644.8223	8,644.8223	0.3418	1.3520	9,056.2684

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259		6,008.2814	6,008.2814	1.9432		6,056.8614

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3284	18.0584	4.0483	0.0762	2.2078	0.1422	2.3500	0.6045	0.1360	0.7405		8,327.756 2	8,327.756 2	0.3329	1.3207	8,729.632 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.3875	18.0843	4.5207	0.0775	2.3599	0.1429	2.5028	0.6448	0.1367	0.7815		8,463.120 1	8,463.120 1	0.3361	1.3237	8,865.982 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3284	18.0584	4.0483	0.0762	2.2078	0.1422	2.3500	0.6045	0.1360	0.7405		8,327.756 2	8,327.756 2	0.3329	1.3207	8,729.632 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.3875	18.0843	4.5207	0.0775	2.3599	0.1429	2.5028	0.6448	0.1367	0.7815		8,463.120 1	8,463.120 1	0.3361	1.3237	8,865.982 0

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
Total	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
Total	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3549	48.8178	14.9713	0.2009	6.6137	0.2742	6.8879	1.9035	0.2623	2.1658		21,567.60 44	21,567.60 44	0.5279	3.1749	22,526.91 30
Worker	8.3090	3.6410	66.4085	0.1827	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		19,032.15 72	19,032.15 72	0.4491	0.4276	19,170.79 82
Total	9.6639	52.4588	81.3799	0.3836	28.0045	0.3746	28.3791	7.5776	0.3547	7.9323		40,599.76 16	40,599.76 16	0.9770	3.6024	41,697.71 12

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3549	48.8178	14.9713	0.2009	6.6137	0.2742	6.8879	1.9035	0.2623	2.1658		21,567.60 44	21,567.60 44	0.5279	3.1749	22,526.91 30
Worker	8.3090	3.6410	66.4085	0.1827	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		19,032.15 72	19,032.15 72	0.4491	0.4276	19,170.79 82
Total	9.6639	52.4588	81.3799	0.3836	28.0045	0.3746	28.3791	7.5776	0.3547	7.9323		40,599.76 16	40,599.76 16	0.9770	3.6024	41,697.71 12

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3077	47.8244	14.6761	0.1968	6.6130	0.2675	6.8805	1.9033	0.2558	2.1591		21,132.67 95	21,132.67 95	0.5162	3.1172	22,074.50 07
Worker	7.8336	3.3016	62.4452	0.1769	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		18,576.89 72	18,576.89 72	0.4088	0.4030	18,707.19 61
Total	9.1413	51.1260	77.1213	0.3737	28.0039	0.3632	28.3671	7.5774	0.3439	7.9213		39,709.57 66	39,709.57 66	0.9250	3.5201	40,781.69 68

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3077	47.8244	14.6761	0.1968	6.6130	0.2675	6.8805	1.9033	0.2558	2.1591		21,132.67 95	21,132.67 95	0.5162	3.1172	22,074.50 07
Worker	7.8336	3.3016	62.4452	0.1769	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		18,576.89 72	18,576.89 72	0.4088	0.4030	18,707.19 61
Total	9.1413	51.1260	77.1213	0.3737	28.0039	0.3632	28.3671	7.5774	0.3439	7.9213		39,709.57 66	39,709.57 66	0.9250	3.5201	40,781.69 68

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2657	46.9140	14.4249	0.1925	6.6124	0.2613	6.8737	1.9030	0.2500	2.1530		20,678.76 04	20,678.76 04	0.5030	3.0561	21,602.04 64
Worker	7.3953	3.0176	59.0785	0.1715	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		18,157.66 65	18,157.66 65	0.3739	0.3823	18,280.94 28
Total	8.6610	49.9316	73.5034	0.3641	28.0033	0.3518	28.3551	7.5772	0.3333	7.9104		38,836.42 69	38,836.42 69	0.8769	3.4384	39,882.98 91

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2657	46.9140	14.4249	0.1925	6.6124	0.2613	6.8737	1.9030	0.2500	2.1530		20,678.76 04	20,678.76 04	0.5030	3.0561	21,602.04 64
Worker	7.3953	3.0176	59.0785	0.1715	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		18,157.66 65	18,157.66 65	0.3739	0.3823	18,280.94 28
Total	8.6610	49.9316	73.5034	0.3641	28.0033	0.3518	28.3551	7.5772	0.3333	7.9104		38,836.42 69	38,836.42 69	0.8769	3.4384	39,882.98 91

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2288	46.1556	14.2243	0.1885	6.6119	0.2559	6.8677	1.9028	0.2448	2.1476		20,253.39 33	20,253.39 33	0.4932	2.9981	21,159.14 56
Worker	6.9962	2.7835	56.2785	0.1667	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		17,782.65 03	17,782.65 03	0.3439	0.3652	17,900.07 26
Total	8.2250	48.9391	70.5028	0.3553	28.0027	0.3408	28.3435	7.5770	0.3230	7.8999		38,036.04 36	38,036.04 36	0.8371	3.3632	39,059.21 82

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2288	46.1556	14.2243	0.1885	6.6119	0.2559	6.8677	1.9028	0.2448	2.1476		20,253.39 33	20,253.39 33	0.4932	2.9981	21,159.14 56
Worker	6.9962	2.7835	56.2785	0.1667	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		17,782.65 03	17,782.65 03	0.3439	0.3652	17,900.07 26
Total	8.2250	48.9391	70.5028	0.3553	28.0027	0.3408	28.3435	7.5770	0.3230	7.8999		38,036.04 36	38,036.04 36	0.8371	3.3632	39,059.21 82

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1945	45.4497	14.0506	0.1848	6.6113	0.2506	6.8620	1.9026	0.2398	2.1424		19,855.32 89	19,855.32 89	0.4842	2.9434	20,744.56 15
Worker	6.6063	2.5854	53.8665	0.1624	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		17,446.14 69	17,446.14 69	0.3176	0.3508	17,558.61 73
Total	7.8008	48.0351	67.9171	0.3472	28.0022	0.3303	28.3325	7.5768	0.3130	7.8898		37,301.47 58	37,301.47 58	0.8017	3.2942	38,303.17 87

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1945	45.4497	14.0506	0.1848	6.6113	0.2506	6.8620	1.9026	0.2398	2.1424		19,855.32 89	19,855.32 89	0.4842	2.9434	20,744.56 15
Worker	6.6063	2.5854	53.8665	0.1624	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		17,446.14 69	17,446.14 69	0.3176	0.3508	17,558.61 73
Total	7.8008	48.0351	67.9171	0.3472	28.0022	0.3303	28.3325	7.5768	0.3130	7.8898		37,301.47 58	37,301.47 58	0.8017	3.2942	38,303.17 87

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6
Total	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6
Total	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2
Total	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2
Total	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1
Total	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1
Total	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3
Total	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3
Total	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8
Total	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8
Total	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Unmitigated	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
NaturalGas Unmitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	0.00768991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185.081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Unmitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2029		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELo.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	180.00	50.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	330.00	1,000.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.7089	55.1410	32.6179	0.1428	19.7939	1.5726	21.0607	10.1388	1.4523	11.3042	0.0000	14,815.9901	14,815.9901	2.2937	1.3800	15,284.5657
2024	3.5936	52.4820	32.2709	0.1412	11.7736	1.4817	13.2553	4.3305	1.3685	5.6990	0.0000	14,644.5152	14,644.5152	2.2851	1.3534	15,104.9529
2025	60.5875	71.4686	103.5458	0.4261	32.2797	1.2743	33.2560	8.7116	1.1776	9.6351	0.0000	44,751.9473	44,751.9473	2.2789	3.7700	45,919.6240
2026	60.0480	69.9135	99.2382	0.4159	32.2790	0.9637	33.2427	8.7114	0.9116	9.6230	0.0000	43,837.1420	43,837.1420	1.7031	3.6781	44,975.7825
2027	59.5474	68.5287	95.5428	0.4060	32.2784	0.9511	33.2295	8.7112	0.8997	9.6109	0.0000	42,940.0946	42,940.0946	1.6428	3.5883	44,050.4771
2028	59.0882	67.3801	92.4577	0.3969	32.2778	0.9388	33.2167	8.7110	0.8882	9.5992	0.0000	42,117.4332	42,117.4332	1.5923	3.5065	43,202.1747
2029	58.6423	66.3402	89.7718	0.3886	32.2773	0.9270	33.2043	8.7108	0.8771	9.5879	0.0000	41,362.0491	41,362.0491	1.5473	3.4318	42,423.4121
Maximum	60.5875	71.4686	103.5458	0.4261	32.2797	1.5726	33.2560	10.1388	1.4523	11.3042	0.0000	44,751.9473	44,751.9473	2.2937	3.7700	45,919.6240

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	161.4843	154.6356	333.5700	0.5028	19.5314	7.8451	27.3765	5.2046	7.3347	12.5393	0.0000	62,187.9454	62,187.9454	9.8701	1.9524	63,016.5061

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	161.4843	154.6356	333.5700	0.5028	19.5314	7.8451	27.3765	5.2046	7.3347	12.5393	0.0000	62,187.9454	62,187.9454	9.8701	1.9524	63,016.5061

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	
3	Paving	Paving	1/3/2025	3/13/2025	5	50	
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000	

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000
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Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960		6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3275	20.5856	4.0920	0.0795	2.2088	0.1474	2.3562	0.6049	0.1410	0.7458		8,677.8967	8,677.8967	0.3450	1.3760	9,096.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.3872	20.6254	4.5667	0.0808	2.3610	0.1482	2.5091	0.6452	0.1417	0.7869		8,804.5123	8,804.5123	0.3495	1.3800	9,224.4822

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3275	20.5856	4.0920	0.0795	2.2088	0.1474	2.3562	0.6049	0.1410	0.7458		8,677.8967	8,677.8967	0.3450	1.3760	9,096.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.3872	20.6254	4.5667	0.0808	2.3610	0.1482	2.5091	0.6452	0.1417	0.7869		8,804.5123	8,804.5123	0.3495	1.3800	9,224.4822

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141		6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3196	20.0696	4.1053	0.0780	2.2083	0.1455	2.3538	0.6047	0.1392	0.7439		8,511.303 1	8,511.303 1	0.3374	1.3497	8,921.936 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.3754	20.1050	4.5481	0.0792	2.3604	0.1463	2.5067	0.6450	0.1399	0.7849		8,634.766 5	8,634.766 5	0.3415	1.3534	9,046.612 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3196	20.0696	4.1053	0.0780	2.2083	0.1455	2.3538	0.6047	0.1392	0.7439		8,511.303 1	8,511.303 1	0.3374	1.3497	8,921.936 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.3754	20.1050	4.5481	0.0792	2.3604	0.1463	2.5067	0.6450	0.1399	0.7849		8,634.766 5	8,634.766 5	0.3415	1.3534	9,046.612 4

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3119	19.5323	4.1182	0.0763	2.2078	0.1427	2.3504	0.6045	0.1365	0.7410		8,333.2177	8,333.2177	0.3320	1.3216	8,735.3484
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.3645	19.5641	4.5331	0.0775	2.3599	0.1434	2.5033	0.6448	0.1371	0.7820		8,453.7025	8,453.7025	0.3357	1.3251	8,856.9643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3119	19.5323	4.1182	0.0763	2.2078	0.1427	2.3504	0.6045	0.1365	0.7410		8,333.2177	8,333.2177	0.3320	1.3216	8,735.3484
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.3645	19.5641	4.5331	0.0775	2.3599	0.1434	2.5033	0.6448	0.1371	0.7820		8,453.7025	8,453.7025	0.3357	1.3251	8,856.9643

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3054	52.4993	15.6598	0.2011	6.6137	0.2768	6.8905	1.9035	0.2648	2.1683		21,588.23 35	21,588.23 35	0.5254	3.1823	22,549.68 69
Worker	7.3836	4.4623	58.3337	0.1626	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		16,940.16 76	16,940.16 76	0.5227	0.4898	17,099.19 95
Total	8.6890	56.9616	73.9936	0.3637	28.0045	0.3772	28.3818	7.5776	0.3572	7.9348		38,528.40 11	38,528.40 11	1.0480	3.6721	39,648.88 64

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3054	52.4993	15.6598	0.2011	6.6137	0.2768	6.8905	1.9035	0.2648	2.1683		21,588.23 35	21,588.23 35	0.5254	3.1823	22,549.68 69
Worker	7.3836	4.4623	58.3337	0.1626	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		16,940.16 76	16,940.16 76	0.5227	0.4898	17,099.19 95
Total	8.6890	56.9616	73.9936	0.3637	28.0045	0.3772	28.3818	7.5776	0.3572	7.9348		38,528.40 11	38,528.40 11	1.0480	3.6721	39,648.88 64

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2572	51.4457	15.3442	0.1970	6.6130	0.2698	6.8828	1.9033	0.2581	2.1613		21,155.1556	21,155.1556	0.5137	3.1244	22,099.0792
Worker	6.9741	4.0444	55.0067	0.1575	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		16,538.6805	16,538.6805	0.4776	0.4614	16,688.1227
Total	8.2313	55.4900	70.3509	0.3545	28.0039	0.3655	28.3694	7.5774	0.3462	7.9236		37,693.8361	37,693.8361	0.9913	3.5859	38,787.2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2572	51.4457	15.3442	0.1970	6.6130	0.2698	6.8828	1.9033	0.2581	2.1613		21,155.1556	21,155.1556	0.5137	3.1244	22,099.0792
Worker	6.9741	4.0444	55.0067	0.1575	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		16,538.6805	16,538.6805	0.4776	0.4614	16,688.1227
Total	8.2313	55.4900	70.3509	0.3545	28.0039	0.3655	28.3694	7.5774	0.3462	7.9236		37,693.8361	37,693.8361	0.9913	3.5859	38,787.2019

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2142	50.4802	15.0734	0.1928	6.6124	0.2634	6.8759	1.9030	0.2520	2.1550		20,702.78 66	20,702.78 66	0.5004	3.0632	21,628.14 17
Worker	6.5928	3.6948	52.1525	0.1527	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		16,168.07 12	16,168.07 12	0.4385	0.4376	16,309.43 79
Total	7.8069	54.1751	67.2259	0.3455	28.0033	0.3539	28.3572	7.5772	0.3353	7.9124		36,870.85 78	36,870.85 78	0.9389	3.5008	37,937.57 96

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2142	50.4802	15.0734	0.1928	6.6124	0.2634	6.8759	1.9030	0.2520	2.1550		20,702.78 66	20,702.78 66	0.5004	3.0632	21,628.14 17
Worker	6.5928	3.6948	52.1525	0.1527	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		16,168.07 12	16,168.07 12	0.4385	0.4376	16,309.43 79
Total	7.8069	54.1751	67.2259	0.3455	28.0033	0.3539	28.3572	7.5772	0.3353	7.9124		36,870.85 78	36,870.85 78	0.9389	3.5008	37,937.57 96

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1762	49.6775	14.8539	0.1888	6.6119	0.2578	6.8696	1.9028	0.2466	2.1494		20,278.69 48	20,278.69 48	0.4905	3.0052	21,186.49 10
Worker	6.2418	3.4066	49.7643	0.1485	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		15,835.89 05	15,835.89 05	0.4046	0.4178	15,970.52 13
Total	7.4179	53.0841	64.6182	0.3373	28.0027	0.3428	28.3455	7.5770	0.3248	7.9018		36,114.58 53	36,114.58 53	0.8951	3.4230	37,157.01 23

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1762	49.6775	14.8539	0.1888	6.6119	0.2578	6.8696	1.9028	0.2466	2.1494		20,278.69 48	20,278.69 48	0.4905	3.0052	21,186.49 10
Worker	6.2418	3.4066	49.7643	0.1485	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		15,835.89 05	15,835.89 05	0.4046	0.4178	15,970.52 13
Total	7.4179	53.0841	64.6182	0.3373	28.0027	0.3428	28.3455	7.5770	0.3248	7.9018		36,114.58 53	36,114.58 53	0.8951	3.4230	37,157.01 23

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1408	48.9305	14.6621	0.1850	6.6113	0.2524	6.8637	1.9026	0.2414	2.1441		19,881.76 91	19,881.76 91	0.4815	2.9504	20,773.02 87
Worker	5.8996	3.1625	47.6856	0.1447	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		15,537.13 98	15,537.13 98	0.3747	0.4012	15,666.06 83
Total	7.0405	52.0930	62.3477	0.3297	28.0022	0.3320	28.3342	7.5768	0.3147	7.8915		35,418.90 89	35,418.90 89	0.8561	3.3516	36,439.09 70

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1408	48.9305	14.6621	0.1850	6.6113	0.2524	6.8637	1.9026	0.2414	2.1441		19,881.76 91	19,881.76 91	0.4815	2.9504	20,773.02 87
Worker	5.8996	3.1625	47.6856	0.1447	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		15,537.13 98	15,537.13 98	0.3747	0.4012	15,666.06 83
Total	7.0405	52.0930	62.3477	0.3297	28.0022	0.3320	28.3342	7.5768	0.3147	7.8915		35,418.90 89	35,418.90 89	0.8561	3.3516	36,439.09 70

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076
Total	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076
Total	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7
Total	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7
Total	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6
Total	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6
Total	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5
Total	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5
Total	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852
Total	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852
Total	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Unmitigated	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
NaturalGas Unmitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	0.00768991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185.081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Unmitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	8.54300E-002	5.72750E-001	9.04570E-001	1.49000E-003	2.57500E-002	2.57500E-002	0.00000E+000	1.27663E+002	1.27663E+002	6.96000E-003	0.00000E+000	1.27837E+002
Cranes	1.36850E-001	1.38597E+000	7.59700E-001	2.53000E-003	5.89100E-002	5.42000E-002	0.00000E+000	2.21794E+002	2.21794E+002	7.17300E-002	0.00000E+000	2.23588E+002
Excavators	5.43500E-002	4.25740E-001	9.79240E-001	1.55000E-003	2.09500E-002	1.92800E-002	0.00000E+000	1.36145E+002	1.36145E+002	4.40300E-002	0.00000E+000	1.37246E+002
Forklifts	1.30330E-001	1.22781E+000	1.70063E+000	2.29000E-003	6.57300E-002	6.04700E-002	0.00000E+000	2.01437E+002	2.01437E+002	6.51500E-002	0.00000E+000	2.03066E+002
Generator Sets	1.33200E-001	1.19772E+000	1.82975E+000	3.29000E-003	4.76900E-002	4.76900E-002	0.00000E+000	2.82604E+002	2.82604E+002	1.04400E-002	0.00000E+000	2.82865E+002
Graders	5.36700E-002	6.31610E-001	2.49060E-001	9.90000E-004	2.04800E-002	1.88400E-002	0.00000E+000	8.71642E+001	8.71642E+001	2.81900E-002	0.00000E+000	8.78690E+001
Pavers	8.69000E-003	7.91500E-002	1.44790E-001	2.40000E-004	3.71000E-003	3.41000E-003	0.00000E+000	2.06382E+001	2.06382E+001	6.67000E-003	0.00000E+000	2.08050E+001
Paving Equipment	7.34000E-003	6.32400E-002	1.27320E-001	2.00000E-004	3.13000E-003	2.88000E-003	0.00000E+000	1.78859E+001	1.78859E+001	5.78000E-003	0.00000E+000	1.80306E+001
Rollers	6.85000E-003	7.21500E-002	9.23400E-002	1.30000E-004	3.63000E-003	3.34000E-003	0.00000E+000	1.15241E+001	1.15241E+001	3.73000E-003	0.00000E+000	1.16172E+001
Rubber Tired Dozers	1.55380E-001	1.60318E+000	7.02060E-001	1.92000E-003	7.22100E-002	6.64300E-002	0.00000E+000	1.68802E+002	1.68802E+002	5.45900E-002	0.00000E+000	1.70167E+002
Scrapers	2.28800E-001	2.32722E+000	1.79505E+000	4.55000E-003	9.18900E-002	8.45400E-002	0.00000E+000	3.99855E+002	3.99855E+002	1.29320E-001	0.00000E+000	4.03088E+002
Tractors/Loaders/Backhoes	2.31980E-001	2.34327E+000	3.82008E+000	5.34000E-003	9.88300E-002	9.09300E-002	0.00000E+000	4.69132E+002	4.69132E+002	1.51730E-001	0.00000E+000	4.72925E+002
Welders	1.09890E-001	6.71030E-001	8.25820E-001	1.28000E-003	2.04400E-002	2.04400E-002	0.00000E+000	9.41103E+001	9.41103E+001	8.94000E-003	0.00000E+000	9.43339E+001

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	8.54300E-002	5.72750E-001	9.04570E-001	1.49000E-003	2.57500E-002	2.57500E-002	0.00000E+000	1.27663E+002	1.27663E+002	6.96000E-003	0.00000E+000	1.27837E+002
Cranes	1.36850E-001	1.38597E+000	7.59700E-001	2.53000E-003	5.89100E-002	5.42000E-002	0.00000E+000	2.21794E+002	2.21794E+002	7.17300E-002	0.00000E+000	2.23587E+002
Excavators	5.43500E-002	4.25740E-001	9.79240E-001	1.55000E-003	2.09500E-002	1.92800E-002	0.00000E+000	1.36145E+002	1.36145E+002	4.40300E-002	0.00000E+000	1.37245E+002
Forklifts	1.30330E-001	1.22781E+000	1.70063E+000	2.29000E-003	6.57300E-002	6.04700E-002	0.00000E+000	2.01437E+002	2.01437E+002	6.51500E-002	0.00000E+000	2.03065E+002
Generator Sets	1.33200E-001	1.19772E+000	1.82975E+000	3.29000E-003	4.76900E-002	4.76900E-002	0.00000E+000	2.82603E+002	2.82603E+002	1.04400E-002	0.00000E+000	2.82864E+002
Graders	5.36600E-002	6.31610E-001	2.49060E-001	9.90000E-004	2.04800E-002	1.88400E-002	0.00000E+000	8.71641E+001	8.71641E+001	2.81900E-002	0.00000E+000	8.78689E+001
Pavers	8.69000E-003	7.91500E-002	1.44790E-001	2.40000E-004	3.71000E-003	3.41000E-003	0.00000E+000	2.06381E+001	2.06381E+001	6.67000E-003	0.00000E+000	2.08050E+001
Paving Equipment	7.34000E-003	6.32400E-002	1.27320E-001	2.00000E-004	3.13000E-003	2.88000E-003	0.00000E+000	1.78859E+001	1.78859E+001	5.78000E-003	0.00000E+000	1.80305E+001
Rollers	6.85000E-003	7.21500E-002	9.23400E-002	1.30000E-004	3.63000E-003	3.34000E-003	0.00000E+000	1.15240E+001	1.15240E+001	3.73000E-003	0.00000E+000	1.16172E+001
Rubber Tired Dozers	1.55380E-001	1.60318E+000	7.02060E-001	1.92000E-003	7.22100E-002	6.64300E-002	0.00000E+000	1.68802E+002	1.68802E+002	5.45900E-002	0.00000E+000	1.70167E+002
Scrapers	2.28800E-001	2.32721E+000	1.79505E+000	4.55000E-003	9.18900E-002	8.45400E-002	0.00000E+000	3.99854E+002	3.99854E+002	1.29320E-001	0.00000E+000	4.03087E+002
Tractors/Loaders/Balckhoes	2.31980E-001	2.34327E+000	3.82007E+000	5.34000E-003	9.88300E-002	9.09300E-002	0.00000E+000	4.69132E+002	4.69132E+002	1.51730E-001	0.00000E+000	4.72925E+002
Welders	1.09890E-001	6.71030E-001	8.25820E-001	1.28000E-003	2.04400E-002	2.04400E-002	0.00000E+000	9.41102E+001	9.41102E+001	8.94000E-003	0.00000E+000	9.43338E+001

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.17337E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17226E-006	1.17226E-006	0.00000E+000	0.00000E+000	1.16285E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17522E-006	1.17522E-006	0.00000E+000	0.00000E+000	1.23865E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19144E-006	1.19144E-006	0.00000E+000	0.00000E+000	1.23113E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20310E-006	1.20310E-006	0.00000E+000	0.00000E+000	1.20199E-006
Graders	1.86324E-004	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26199E-006	1.26199E-006	0.00000E+000	0.00000E+000	1.13806E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.45362E-006	1.45362E-006	0.00000E+000	0.00000E+000	1.44196E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.67730E-006	1.67730E-006	0.00000E+000	0.00000E+000	1.10923E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.73550E-006	1.73550E-006	0.00000E+000	0.00000E+000	8.60790E-007
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18482E-006	1.18482E-006	0.00000E+000	0.00000E+000	1.23408E-006
Scrapers	0.00000E+000	4.29697E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17543E-006	1.17543E-006	0.00000E+000	0.00000E+000	1.19081E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	2.61775E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19369E-006	1.19369E-006	0.00000E+000	0.00000E+000	1.18412E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16884E-006	1.16884E-006	0.00000E+000	0.00000E+000	1.16607E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
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ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	2.06	0.55	2.06	0.55	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	13.54	3.67	13.54	3.67	0.00	0.00
Grading	Fugitive Dust	2.43	0.67	2.43	0.67	0.00	0.00
Grading	Roads	0.34	0.09	0.34	0.09	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.49	0.25	0.49	0.25	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.03	0.20		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

ASIP - No Future Development Included

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2033		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage and lot acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per applicant-provided questionnaire.

Grading - Based on applicant provided AQ questionnaire.

Vehicle Trips - Based on project-specific information provided by DKS.

Water Mitigation - Compliant with MWELO.

Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	240.00	90.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	440.00	1,800.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1166	1.1849	0.8026	1.6900e-003	0.8541	0.0545	0.9086	0.4363	0.0501	0.4864	0.0000	148.3983	148.3983	0.0467	1.3000e-004	149.6037
2024	0.4511	5.6438	3.9609	0.0138	1.9477	0.1852	2.1329	0.5994	0.1708	0.7702	0.0000	1,278.1858	1,278.1858	0.2520	0.0881	1,310.7479
2025	0.4085	5.0370	3.7848	0.0138	1.8507	0.1580	2.0087	0.5772	0.1457	0.7230	0.0000	1,273.8120	1,273.8120	0.2523	0.0873	1,306.1262
2026	3.5099	6.8058	9.5165	0.0400	3.8050	0.1097	3.9147	0.9043	0.1030	1.0073	0.0000	3,814.9161	3,814.9161	0.1770	0.3082	3,911.1960
2027	6.1411	10.2743	14.4108	0.0645	4.9720	0.1346	5.1067	1.3460	0.1274	1.4734	0.0000	6,201.5214	6,201.5214	0.2146	0.5124	6,359.5756
2028	6.0469	10.0595	13.8708	0.0628	4.9529	0.1322	5.0851	1.3408	0.1251	1.4659	0.0000	6,057.6880	6,057.6880	0.2069	0.4989	6,211.5341
2029	6.0014	9.9385	13.5023	0.0617	4.9719	0.1308	5.1027	1.3459	0.1238	1.4697	0.0000	5,970.3706	5,970.3706	0.2017	0.4903	6,121.5054
2030	5.9232	9.1655	13.1563	0.0610	4.9718	0.0754	5.0472	1.3459	0.0726	1.4185	0.0000	5,911.1760	5,911.1760	0.1385	0.4808	6,057.9023
2031	5.8608	9.0421	12.8510	0.0600	4.9717	0.0738	5.0455	1.3459	0.0711	1.4170	0.0000	5,822.4350	5,822.4350	0.1336	0.4724	5,966.5467
2032	5.8260	8.9718	12.6404	0.0592	4.9907	0.0726	5.0633	1.3510	0.0700	1.4210	0.0000	5,766.5261	5,766.5261	0.1298	0.4669	5,908.9209
2033	2.0321	2.8555	4.0409	0.0189	1.6253	0.0230	1.6483	0.4399	0.0222	0.4621	0.0000	1,844.6678	1,844.6678	0.0408	0.1481	1,889.8085
Maximum	6.1411	10.2743	14.4108	0.0645	4.9907	0.1852	5.1067	1.3510	0.1708	1.4734	0.0000	6,201.5214	6,201.5214	0.2523	0.5124	6,359.5756

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	0.9839	0.9839
2	12-1-2023	2-29-2024	1.3182	1.3182
3	3-1-2024	5-31-2024	1.5267	1.5267
4	6-1-2024	8-31-2024	1.5175	1.5175
5	9-1-2024	11-30-2024	1.5191	1.5191
6	12-1-2024	2-28-2025	1.4045	1.4045
7	3-1-2025	5-31-2025	1.3608	1.3608
8	6-1-2025	8-31-2025	1.3519	1.3519
9	9-1-2025	11-30-2025	1.3548	1.3548
10	12-1-2025	2-28-2026	1.0085	1.0085
11	3-1-2026	5-31-2026	0.3456	0.3456
12	6-1-2026	8-31-2026	3.7873	3.7873
13	9-1-2026	11-30-2026	4.1927	4.1927
14	12-1-2026	2-28-2027	4.1425	4.1425
15	3-1-2027	5-31-2027	4.1190	4.1190
16	6-1-2027	8-31-2027	4.0736	4.0736
17	9-1-2027	11-30-2027	4.1188	4.1188
18	12-1-2027	2-29-2028	4.1207	4.1207
19	3-1-2028	5-31-2028	4.0560	4.0560
20	6-1-2028	8-31-2028	4.0112	4.0112
21	9-1-2028	11-30-2028	4.0557	4.0557
22	12-1-2028	2-28-2029	4.0157	4.0157
23	3-1-2029	5-31-2029	3.9974	3.9974
24	6-1-2029	8-31-2029	3.9532	3.9532
25	9-1-2029	11-30-2029	3.9972	3.9972
26	12-1-2029	2-28-2030	3.8570	3.8570
27	3-1-2030	5-31-2030	3.7820	3.7820
28	6-1-2030	8-31-2030	3.7381	3.7381

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

29	9-1-2030	11-30-2030	3.7838	3.7838
30	12-1-2030	2-28-2031	3.7532	3.7532
31	3-1-2031	5-31-2031	3.7341	3.7341
32	6-1-2031	8-31-2031	3.6905	3.6905
33	9-1-2031	11-30-2031	3.7362	3.7362
34	12-1-2031	2-29-2032	3.7511	3.7511
35	3-1-2032	5-31-2032	3.6922	3.6922
36	6-1-2032	8-31-2032	3.6486	3.6486
37	9-1-2032	11-30-2032	3.6948	3.6948
38	12-1-2032	2-28-2033	3.6733	3.6733
39	3-1-2033	5-31-2033	2.5485	2.5485
		Highest	4.1927	4.1927

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7936	1,787.5065	1.9861	1.1963	2,193.6541
Total	36.9362	21.8312	68.6650	0.1285	6.2289	0.5576	6.7865	1.6640	0.5551	2.2191	2,259.9406	30,760.5798	33,020.5204	105.5661	1.7711	36,187.4653

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7031	1,787.4160	1.9861	1.1963	2,193.5632
Total	36.9362	21.8312	68.6650	0.1285	6.2289	0.5576	6.7865	1.6640	0.5551	2.2191	2,259.9406	30,760.4894	33,020.4300	105.5661	1.7711	36,187.3744

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/30/2026	6/4/2026	5	90
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800
5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800

Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	0.3786	3.6466	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6465	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	0.3786	3.6465	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Unmitigated	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
NaturalGas Mitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988
NaturalGas Unmitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Unmitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,787,416 0	1.9861	1.1963	2,193.563 2
Unmitigated	1,787,506 5	1.9861	1.1963	2,193.654 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1528.4 / 0	1,777.317 8	1.9752	1.1898	2,181.250 1
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.506 4	1.9861	1.1963	2,193.654 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1528.4 / 0	1,777.3178	1.9752	1.1898	2,181.2501
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.4160	1.9861	1.1963	2,193.5632

8.0 Waste Detail

8.1 Mitigation Measures Waste

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,716.227 7	101.4262	0.0000	4,251.881 5
Unmitigated	1,716.227 7	101.4262	0.0000	4,251.881 5

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.618 5	98.3170	0.0000	4,121.544 5
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.227 7	101.4262	0.0000	4,251.881 5

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.6185	98.3170	0.0000	4,121.5445
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.2277	101.4262	0.0000	4,251.8815

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Total	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage and lot acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per applicant-provided questionnaire.

Grading - Based on applicant provided AQ questionnaire.

Vehicle Trips - Based on project-specific information provided by DKS.

Water Mitigation - Compliant with MWELO.

Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	240.00	90.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	440.00	1,800.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	3.1500e-003	3,846.2531
2024	3.4677	42.7160	30.4696	0.1067	19.7939	1.4167	21.0240	10.1388	1.3063	11.2704	0.0000	10,874.0947	10,874.0947	2.1351	0.7526	11,151.7376
2025	3.1428	38.0013	29.0525	0.1057	10.6987	1.2106	11.9093	4.0476	1.1167	5.1642	0.0000	10,770.1765	10,770.1765	2.1313	0.7367	11,043.0070
2026	49.3820	76.8174	127.2961	0.5292	39.4114	1.2086	40.4571	10.6362	1.1148	11.6252	0.0000	55,846.1888	55,846.1888	2.1276	4.3946	57,201.9030
2027	48.6885	75.2903	122.0568	0.5162	39.4106	1.0305	40.4412	10.6359	0.9748	11.6107	0.0000	54,677.9901	54,677.9901	1.7780	4.2898	56,000.7946
2028	48.0588	74.0217	117.7096	0.5043	39.4099	1.0158	40.4257	10.6357	0.9610	11.5967	0.0000	53,609.4171	53,609.4171	1.7221	4.1939	54,902.2466
2029	47.4457	72.8700	113.9636	0.4935	39.4093	1.0016	40.4109	10.6354	0.9477	11.5832	0.0000	52,630.5912	52,630.5912	1.6725	4.1061	53,896.0047
2030	46.7591	67.0102	110.8812	0.4876	39.4087	0.5773	39.9860	10.6352	0.5556	11.1908	0.0000	52,092.0312	52,092.0312	1.1407	4.0271	53,320.6109
2031	46.1993	66.1193	108.1754	0.4789	39.4082	0.5647	39.9730	10.6350	0.5438	11.1789	0.0000	51,308.7579	51,308.7579	1.1009	3.9574	52,515.5946
2032	45.6826	65.3627	105.8845	0.4712	39.4079	0.5536	39.9614	10.6349	0.5334	11.1683	0.0000	50,621.4119	50,621.4119	1.0660	3.8972	51,809.4338
2033	45.2376	64.7315	103.9491	0.4645	39.4075	0.5437	39.9512	10.6348	0.5241	11.1589	0.0000	50,016.6804	50,016.6804	1.0359	3.8449	51,188.3731
Maximum	49.3820	76.8174	127.2961	0.5292	39.4114	1.4167	40.4571	10.6362	1.3063	11.6252	0.0000	55,846.1888	55,846.1888	2.1351	4.3946	57,201.9030

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	214.4858	133.9316	415.4255	0.7849	35.4391	3.2702	38.7092	9.4406	3.2566	12.6972	0.0000	94,222.5429	94,222.5429	4.5668	2.3739	95,044.1490

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	214.4858	133.9316	415.4255	0.7849	35.4391	3.2702	38.7092	9.4406	3.2566	12.6972	0.0000	94,222.5429	94,222.5429	4.5668	2.3739	95,044.1490

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	
3	Paving	Paving	1/30/2026	6/4/2026	5	90	
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800	

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800
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Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000		6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1866	10.3102	2.2408	0.0433	1.2268	0.0806	1.3074	0.3359	0.0771	0.4130		4,725.5954	4,725.5954	0.1879	0.7493	4,953.5892
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.2496	10.3390	2.7468	0.0446	1.3790	0.0813	1.4603	0.3763	0.0778	0.4540		4,864.3460	4,864.3460	0.1914	0.7526	5,093.3970

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1866	10.3102	2.2408	0.0433	1.2268	0.0806	1.3074	0.3359	0.0771	0.4130		4,725.5954	4,725.5954	0.1879	0.7493	4,953.5892
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.2496	10.3390	2.7468	0.0446	1.3790	0.0813	1.4603	0.3763	0.0778	0.4540		4,864.3460	4,864.3460	0.1914	0.7526	5,093.3970

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1824	10.0325	2.2491	0.0424	1.2265	0.0790	1.3055	0.3358	0.0756	0.4114		4,626.531 2	4,626.531 2	0.1849	0.7337	4,849.795 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.2415	10.0584	2.7214	0.0437	1.3787	0.0797	1.4584	0.3762	0.0762	0.4524		4,761.895 1	4,761.895 1	0.1881	0.7367	4,986.145 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1824	10.0325	2.2491	0.0424	1.2265	0.0790	1.3055	0.3358	0.0756	0.4114		4,626.531 2	4,626.531 2	0.1849	0.7337	4,849.795 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.2415	10.0584	2.7214	0.0437	1.3787	0.0797	1.4584	0.3762	0.0762	0.4524		4,761.895 1	4,761.895 1	0.1881	0.7367	4,986.145 5

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1780	9.7592	2.2524	0.0414	1.2263	0.0771	1.3033	0.3357	0.0737	0.4095		4,529.067 2	4,529.067 2	0.1815	0.7183	4,747.656 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
Total	0.2337	9.7826	2.6965	0.0427	1.3784	0.0777	1.4562	0.3761	0.0744	0.4504		4,661.193 0	4,661.193 0	0.1844	0.7212	4,880.709 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1780	9.7592	2.2524	0.0414	1.2263	0.0771	1.3033	0.3357	0.0737	0.4095		4,529.067 2	4,529.067 2	0.1815	0.7183	4,747.656 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
Total	0.2337	9.7826	2.6965	0.0427	1.3784	0.0777	1.4562	0.3761	0.0744	0.4504		4,661.193 0	4,661.193 0	0.1844	0.7212	4,880.709 4

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
Total	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
Total	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5959	58.3650	17.9107	0.2402	8.0706	0.3264	8.3969	2.3227	0.3122	2.6349		25,790.33 74	25,790.33 74	0.6300	3.8042	26,939.73 67
Worker	9.5636	4.0307	76.2356	0.2159	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		22,679.40 54	22,679.40 54	0.4991	0.4919	22,838.47 95
Total	11.1595	62.3956	94.1463	0.4561	34.1854	0.4432	34.6286	9.2499	0.4198	9.6697		48,469.74 28	48,469.74 28	1.1290	4.2961	49,778.21 62

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5959	58.3650	17.9107	0.2402	8.0706	0.3264	8.3969	2.3227	0.3122	2.6349		25,790.33 74	25,790.33 74	0.6300	3.8042	26,939.73 67
Worker	9.5636	4.0307	76.2356	0.2159	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		22,679.40 54	22,679.40 54	0.4991	0.4919	22,838.47 95
Total	11.1595	62.3956	94.1463	0.4561	34.1854	0.4432	34.6286	9.2499	0.4198	9.6697		48,469.74 28	48,469.74 28	1.1290	4.2961	49,778.21 62

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5447	57.2539	17.6041	0.2350	8.0698	0.3189	8.3887	2.3225	0.3051	2.6275		25,236.37 42	25,236.37 42	0.6139	3.7296	26,363.15 31
Worker	9.0285	3.6840	72.1254	0.2094	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		22,167.59 22	22,167.59 22	0.4564	0.4667	22,318.09 26
Total	10.5731	60.9379	89.7295	0.4444	34.1846	0.4294	34.6140	9.2496	0.4067	9.6564		47,403.96 64	47,403.96 64	1.0703	4.1964	48,681.24 57

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5447	57.2539	17.6041	0.2350	8.0698	0.3189	8.3887	2.3225	0.3051	2.6275		25,236.37 42	25,236.37 42	0.6139	3.7296	26,363.15 31
Worker	9.0285	3.6840	72.1254	0.2094	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		22,167.59 22	22,167.59 22	0.4564	0.4667	22,318.09 26
Total	10.5731	60.9379	89.7295	0.4444	34.1846	0.4294	34.6140	9.2496	0.4067	9.6564		47,403.96 64	47,403.96 64	1.0703	4.1964	48,681.24 57

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4996	56.3283	17.3594	0.2301	8.0691	0.3123	8.3814	2.3222	0.2987	2.6209		24,717.25 59	24,717.25 59	0.6019	3.6588	25,822.63 67
Worker	8.5413	3.3982	68.7070	0.2036	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		21,709.75 77	21,709.75 77	0.4199	0.4458	21,853.11 14
Total	10.0409	59.7265	86.0664	0.4337	34.1839	0.4160	34.5999	9.2494	0.3942	9.6436		46,427.01 36	46,427.01 36	1.0217	4.1047	47,675.74 81

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4996	56.3283	17.3594	0.2301	8.0691	0.3123	8.3814	2.3222	0.2987	2.6209		24,717.25 59	24,717.25 59	0.6019	3.6588	25,822.63 67
Worker	8.5413	3.3982	68.7070	0.2036	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		21,709.75 77	21,709.75 77	0.4199	0.4458	21,853.11 14
Total	10.0409	59.7265	86.0664	0.4337	34.1839	0.4160	34.5999	9.2494	0.3942	9.6436		46,427.01 36	46,427.01 36	1.0217	4.1047	47,675.74 81

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4578	55.4668	17.1474	0.2255	8.0685	0.3059	8.3744	2.3220	0.2926	2.6146		24,231.45 78	24,231.45 78	0.5909	3.5921	25,316.67 79
Worker	8.0652	3.1564	65.7623	0.1983	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		21,298.94 11	21,298.94 11	0.3877	0.4282	21,436.24 93
Total	9.5230	58.6232	82.9097	0.4238	34.1833	0.4031	34.5864	9.2492	0.3821	9.6312		45,530.39 89	45,530.39 89	0.9786	4.0204	46,752.92 72

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4578	55.4668	17.1474	0.2255	8.0685	0.3059	8.3744	2.3220	0.2926	2.6146		24,231.45 78	24,231.45 78	0.5909	3.5921	25,316.67 79
Worker	8.0652	3.1564	65.7623	0.1983	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		21,298.94 11	21,298.94 11	0.3877	0.4282	21,436.24 93
Total	9.5230	58.6232	82.9097	0.4238	34.1833	0.4031	34.5864	9.2492	0.3821	9.6312		45,530.39 89	45,530.39 89	0.9786	4.0204	46,752.92 72

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4201	54.6752	16.9805	0.2213	8.0679	0.2996	8.3675	2.3218	0.2866	2.6084		23,785.17 43	23,785.17 43	0.5818	3.5307	24,851.87 29
Worker	7.6065	2.9532	63.2822	0.1936	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		20,937.85 21	20,937.85 21	0.3593	0.4136	21,070.08 11
Total	9.0266	57.6284	80.2627	0.4150	34.1827	0.3906	34.5733	9.2490	0.3703	9.6193		44,723.02 64	44,723.02 64	0.9411	3.9443	45,921.95 40

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4201	54.6752	16.9805	0.2213	8.0679	0.2996	8.3675	2.3218	0.2866	2.6084		23,785.17 43	23,785.17 43	0.5818	3.5307	24,851.87 29
Worker	7.6065	2.9532	63.2822	0.1936	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		20,937.85 21	20,937.85 21	0.3593	0.4136	21,070.08 11
Total	9.0266	57.6284	80.2627	0.4150	34.1827	0.3906	34.5733	9.2490	0.3703	9.6193		44,723.02 64	44,723.02 64	0.9411	3.9443	45,921.95 40

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3881	53.9935	16.8655	0.2176	8.0674	0.2940	8.3615	2.3216	0.2813	2.6029		23,386.41 17	23,386.41 17	0.5723	3.4759	24,436.54 56
Worker	7.1668	2.7788	61.1234	0.1895	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		20,617.45 76	20,617.45 76	0.3341	0.4012	20,745.37 18
Total	8.5548	56.7723	77.9889	0.4071	34.1822	0.3792	34.5615	9.2488	0.3597	9.6085		44,003.86 93	44,003.86 93	0.9064	3.8772	45,181.91 74

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3881	53.9935	16.8655	0.2176	8.0674	0.2940	8.3615	2.3216	0.2813	2.6029		23,386.41 17	23,386.41 17	0.5723	3.4759	24,436.54 56
Worker	7.1668	2.7788	61.1234	0.1895	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		20,617.45 76	20,617.45 76	0.3341	0.4012	20,745.37 18
Total	8.5548	56.7723	77.9889	0.4071	34.1822	0.3792	34.5615	9.2488	0.3597	9.6085		44,003.86 93	44,003.86 93	0.9064	3.8772	45,181.91 74

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3610	53.4089	16.7924	0.2143	8.0670	0.2893	8.3563	2.3215	0.2767	2.5982		23,035.77 79	23,035.77 79	0.5642	3.4279	24,071.38 03
Worker	6.7587	2.6355	59.2754	0.1858	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		20,336.89 14	20,336.89 14	0.3119	0.3911	20,461.23 65
Total	8.1198	56.0444	76.0678	0.4001	34.1819	0.3691	34.5510	9.2487	0.3502	9.5989		43,372.66 92	43,372.66 92	0.8760	3.8190	44,532.61 68

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3610	53.4089	16.7924	0.2143	8.0670	0.2893	8.3563	2.3215	0.2767	2.5982		23,035.77 79	23,035.77 79	0.5642	3.4279	24,071.38 03
Worker	6.7587	2.6355	59.2754	0.1858	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		20,336.89 14	20,336.89 14	0.3119	0.3911	20,461.23 65
Total	8.1198	56.0444	76.0678	0.4001	34.1819	0.3691	34.5510	9.2487	0.3502	9.5989		43,372.66 92	43,372.66 92	0.8760	3.8190	44,532.61 68

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3384	52.9155	16.7441	0.2115	8.0667	0.2852	8.3519	2.3213	0.2728	2.5942		22,725.65 01	22,725.65 01	0.5572	3.3854	23,748.41 99
Worker	6.4068	2.5206	57.7029	0.1826	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		20,091.41 21	20,091.41 21	0.2926	0.3829	20,212.84 37
Total	7.7452	55.4361	74.4470	0.3940	34.1815	0.3602	34.5417	9.2485	0.3419	9.5904		42,817.06 22	42,817.06 22	0.8498	3.7683	43,961.26 35

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3384	52.9155	16.7441	0.2115	8.0667	0.2852	8.3519	2.3213	0.2728	2.5942		22,725.65 01	22,725.65 01	0.5572	3.3854	23,748.41 99
Worker	6.4068	2.5206	57.7029	0.1826	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		20,091.41 21	20,091.41 21	0.2926	0.3829	20,212.84 37
Total	7.7452	55.4361	74.4470	0.3940	34.1815	0.3602	34.5417	9.2485	0.3419	9.5904		42,817.06 22	42,817.06 22	0.8498	3.7683	43,961.26 35

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569
Total	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569
Total	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190
Total	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190
Total	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5
Total	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5
Total	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.269 9	4,262.269 9	0.0776	0.0857	4,289.747 5
Total	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.269 9	4,262.269 9	0.0776	0.0857	4,289.747 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.2699	4,262.2699	0.0776	0.0857	4,289.7475
Total	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.2699	4,262.2699	0.0776	0.0857	4,289.7475

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2
Total	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2
Total	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915
Total	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915
Total	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4
Total	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4
Total	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9
Total	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9
Total	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Unmitigated	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
NaturalGas Unmitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7689.91	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235.038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Unmitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Airport South Industrial Project - Full Buildout of Annexation Area
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	240.00	90.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	440.00	1,800.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
2024	3.4515	43.5621	30.4463	0.1066	19.7939	1.4170	21.0240	10.1388	1.3066	11.2704	0.0000	10,861.71 38	10,861.71 38	2.1352	0.7535	11,139.64 80
2025	3.1271	38.8259	29.0339	0.1056	10.6987	1.2109	11.9095	4.0476	1.1169	5.1645	0.0000	10,758.33 17	10,758.33 17	2.1314	0.7377	11,031.44 87
2026	48.0611	82.3251	117.2129	0.5011	39.4114	1.2089	40.4599	10.6362	1.1150	11.6280	0.0000	52,887.32 69	52,887.32 69	2.1276	4.4891	54,273.65 45
2027	47.4499	80.6348	112.7006	0.4890	39.4106	1.0332	40.4438	10.6359	0.9773	11.6132	0.0000	51,792.25 74	51,792.25 74	1.8694	4.3795	53,144.09 23
2028	46.8892	79.2328	108.9336	0.4779	39.4099	1.0182	40.4281	10.6357	0.9633	11.5989	0.0000	50,788.00 11	50,788.00 11	1.8078	4.2797	52,108.53 80
2029	46.3448	77.9635	105.6540	0.4677	39.4093	1.0037	40.4130	10.6354	0.9498	11.5852	0.0000	49,865.87 83	49,865.87 83	1.7528	4.1885	51,157.87 92
2030	45.7296	72.0019	102.9636	0.4625	39.4087	0.5792	39.9879	10.6352	0.5574	11.1926	0.0000	49,376.55 63	49,376.55 63	1.2160	4.1068	50,630.78 71
2031	45.2355	71.0251	100.5847	0.4544	39.4082	0.5664	39.9747	10.6350	0.5454	11.1805	0.0000	48,636.33 58	48,636.33 58	1.1717	4.0349	49,868.03 30
2032	44.7853	70.1991	98.5628	0.4472	39.4079	0.5551	39.9630	10.6349	0.5348	11.1697	0.0000	47,986.29 32	47,986.29 32	1.1327	3.9729	49,198.52 73
2033	44.3973	69.5120	96.8444	0.4408	39.4075	0.5451	39.9526	10.6348	0.5255	11.1603	0.0000	47,413.95 35	47,413.95 35	1.0989	3.9192	48,609.33 42
Maximum	48.0611	82.3251	117.2129	0.5011	39.4114	1.4170	40.4599	10.6362	1.3066	11.6280	0.0000	52,887.32 69	52,887.32 69	2.1352	4.4891	54,273.65 45

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	203.1489	137.0095	437.1332	0.7613	35.4391	3.2706	38.7097	9.4406	3.2570	12.6976	0.0000	91,612.0949	91,612.0949	5.0730	2.5557	92,500.5223

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	203.1489	137.0095	437.1332	0.7613	35.4391	3.2706	38.7097	9.4406	3.2570	12.6976	0.0000	91,612.0949	91,612.0949	5.0730	2.5557	92,500.5223

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	
3	Paving	Paving	1/30/2026	6/4/2026	5	90	
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800	

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800
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Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000		6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1775	11.1498	2.2807	0.0433	1.2268	0.0809	1.3077	0.3359	0.0774	0.4133		4,728.5017	4,728.5017	0.1874	0.7498	4,956.6311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.2334	11.1852	2.7235	0.0445	1.3790	0.0816	1.4606	0.3763	0.0780	0.4543		4,851.9651	4,851.9651	0.1915	0.7535	5,081.3074

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1775	11.1498	2.2807	0.0433	1.2268	0.0809	1.3077	0.3359	0.0774	0.4133		4,728.5017	4,728.5017	0.1874	0.7498	4,956.6311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.2334	11.1852	2.7235	0.0445	1.3790	0.0816	1.4606	0.3763	0.0780	0.4543		4,851.9651	4,851.9651	0.1915	0.7535	5,081.3074

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1733	10.8513	2.2879	0.0424	1.2265	0.0793	1.3058	0.3358	0.0758	0.4116		4,629.5654	4,629.5654	0.1844	0.7342	4,852.9713
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.2258	10.8830	2.7028	0.0435	1.3787	0.0800	1.4586	0.3762	0.0765	0.4527		4,750.0502	4,750.0502	0.1882	0.7377	4,974.5872

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1733	10.8513	2.2879	0.0424	1.2265	0.0793	1.3058	0.3358	0.0758	0.4116		4,629.5654	4,629.5654	0.1844	0.7342	4,852.9713
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.2258	10.8830	2.7028	0.0435	1.3787	0.0800	1.4586	0.3762	0.0765	0.4527		4,750.0502	4,750.0502	0.1882	0.7377	4,974.5872

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1688	10.5572	2.2903	0.0415	1.2263	0.0773	1.3036	0.3357	0.0740	0.4097		4,532.2114	4,532.2114	0.1810	0.7188	4,750.9472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
Total	0.2184	10.5860	2.6815	0.0426	1.3784	0.0780	1.4564	0.3761	0.0746	0.4507		4,649.8407	4,649.8407	0.1844	0.7221	4,869.6394

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1688	10.5572	2.2903	0.0415	1.2263	0.0773	1.3036	0.3357	0.0740	0.4097		4,532.211 4	4,532.211 4	0.1810	0.7188	4,750.947 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
Total	0.2184	10.5860	2.6815	0.0426	1.3784	0.0780	1.4564	0.3761	0.0746	0.4507		4,649.840 7	4,649.840 7	0.1844	0.7221	4,869.639 4

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
Total	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
Total	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5343	62.7843	18.7260	0.2404	8.0706	0.3293	8.3998	2.3227	0.3150	2.6377		25,817.76 73	25,817.76 73	0.6269	3.8131	26,969.73 24
Worker	8.5143	4.9376	67.1543	0.1922	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		20,191.07 05	20,191.07 05	0.5831	0.5633	20,373.51 53
Total	10.0486	67.7219	85.8804	0.4327	34.1854	0.4461	34.6315	9.2499	0.4225	9.6725		46,008.83 78	46,008.83 78	1.2100	4.3764	47,343.24 77

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5343	62.7843	18.7260	0.2404	8.0706	0.3293	8.3998	2.3227	0.3150	2.6377		25,817.76 73	25,817.76 73	0.6269	3.8131	26,969.73 24
Worker	8.5143	4.9376	67.1543	0.1922	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		20,191.07 05	20,191.07 05	0.5831	0.5633	20,373.51 53
Total	10.0486	67.7219	85.8804	0.4327	34.1854	0.4461	34.6315	9.2499	0.4225	9.6725		46,008.83 78	46,008.83 78	1.2100	4.3764	47,343.24 77

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4818	61.6061	18.3956	0.2352	8.0698	0.3215	8.3913	2.3225	0.3075	2.6300		25,265.69 58	25,265.69 58	0.6107	3.7384	26,394.99 99
Worker	8.0487	4.5108	63.6698	0.1865	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		19,738.61 61	19,738.61 61	0.5353	0.5342	19,911.20 21
Total	9.5305	66.1169	82.0654	0.4217	34.1846	0.4320	34.6166	9.2496	0.4092	9.6589		45,004.31 19	45,004.31 19	1.1460	4.2726	46,306.20 20

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4818	61.6061	18.3956	0.2352	8.0698	0.3215	8.3913	2.3225	0.3075	2.6300		25,265.69 58	25,265.69 58	0.6107	3.7384	26,394.99 99
Worker	8.0487	4.5108	63.6698	0.1865	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		19,738.61 61	19,738.61 61	0.5353	0.5342	19,911.20 21
Total	9.5305	66.1169	82.0654	0.4217	34.1846	0.4320	34.6166	9.2496	0.4092	9.6589		45,004.31 19	45,004.31 19	1.1460	4.2726	46,306.20 20

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4354	60.6264	18.1277	0.2304	8.0691	0.3146	8.3837	2.3222	0.3009	2.6232		24,748.13 39	24,748.13 39	0.5986	3.6675	25,856.00 91
Worker	7.6202	4.1589	60.7542	0.1813	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		19,333.07 69	19,333.07 69	0.4940	0.5101	19,497.43 94
Total	9.0556	64.7853	78.8819	0.4117	34.1839	0.4183	34.6023	9.2494	0.3964	9.6458		44,081.21 07	44,081.21 07	1.0926	4.1776	45,353.44 84

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4354	60.6264	18.1277	0.2304	8.0691	0.3146	8.3837	2.3222	0.3009	2.6232		24,748.13 39	24,748.13 39	0.5986	3.6675	25,856.00 91
Worker	7.6202	4.1589	60.7542	0.1813	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		19,333.07 69	19,333.07 69	0.4940	0.5101	19,497.43 94
Total	9.0556	64.7853	78.8819	0.4117	34.1839	0.4183	34.6023	9.2494	0.3964	9.6458		44,081.21 07	44,081.21 07	1.0926	4.1776	45,353.44 84

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3922	59.7148	17.8937	0.2258	8.0685	0.3080	8.3765	2.3220	0.2946	2.6166		24,263.72 55	24,263.72 55	0.5876	3.6007	25,351.41 93
Worker	7.2025	3.8609	58.2164	0.1766	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		18,968.35 02	18,968.35 02	0.4574	0.4898	19,125.75 13
Total	8.5948	63.5757	76.1101	0.4024	34.1833	0.4052	34.5885	9.2492	0.3841	9.6333		43,232.07 57	43,232.07 57	1.0450	4.0905	44,477.17 06

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3922	59.7148	17.8937	0.2258	8.0685	0.3080	8.3765	2.3220	0.2946	2.6166		24,263.72 55	24,263.72 55	0.5876	3.6007	25,351.41 93
Worker	7.2025	3.8609	58.2164	0.1766	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		18,968.35 02	18,968.35 02	0.4574	0.4898	19,125.75 13
Total	8.5948	63.5757	76.1101	0.4024	34.1833	0.4052	34.5885	9.2492	0.3841	9.6333		43,232.07 57	43,232.07 57	1.0450	4.0905	44,477.17 06

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3530	58.8780	17.7059	0.2217	8.0679	0.3015	8.3694	2.3218	0.2884	2.6102		23,818.79 48	23,818.79 48	0.5784	3.5393	24,887.95 98
Worker	6.8046	3.6105	56.0803	0.1725	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		18,647.16 17	18,647.16 17	0.4249	0.4729	18,798.70 94
Total	8.1576	62.4884	73.7862	0.3941	34.1827	0.3925	34.5752	9.2490	0.3722	9.6211		42,465.95 64	42,465.95 64	1.0034	4.0122	43,686.66 92

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3530	58.8780	17.7059	0.2217	8.0679	0.3015	8.3694	2.3218	0.2884	2.6102		23,818.79 48	23,818.79 48	0.5784	3.5393	24,887.95 98
Worker	6.8046	3.6105	56.0803	0.1725	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		18,647.16 17	18,647.16 17	0.4249	0.4729	18,798.70 94
Total	8.1576	62.4884	73.7862	0.3941	34.1827	0.3925	34.5752	9.2490	0.3722	9.6211		42,465.95 64	42,465.95 64	1.0034	4.0122	43,686.66 92

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3196	58.1594	17.5731	0.2179	8.0674	0.2957	8.3631	2.3216	0.2829	2.6045		23,421.27 53	23,421.27 53	0.5689	3.4845	24,473.87 81
Worker	6.4207	3.3954	54.2088	0.1687	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		18,361.60 52	18,361.60 52	0.3960	0.4586	18,508.17 72
Total	7.7403	61.5547	71.7819	0.3867	34.1822	0.3809	34.5632	9.2488	0.3613	9.6101		41,782.88 05	41,782.88 05	0.9648	3.9431	42,982.05 54

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3196	58.1594	17.5731	0.2179	8.0674	0.2957	8.3631	2.3216	0.2829	2.6045		23,421.27 53	23,421.27 53	0.5689	3.4845	24,473.87 81
Worker	6.4207	3.3954	54.2088	0.1687	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		18,361.60 52	18,361.60 52	0.3960	0.4586	18,508.17 72
Total	7.7403	61.5547	71.7819	0.3867	34.1822	0.3809	34.5632	9.2488	0.3613	9.6101		41,782.88 05	41,782.88 05	0.9648	3.9431	42,982.05 54

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2911	57.5453	17.4856	0.2147	8.0670	0.2908	8.3579	2.3215	0.2782	2.5996		23,071.76 28	23,071.76 28	0.5606	3.4365	24,109.84 26
Worker	6.0693	3.2187	52.5970	0.1655	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		18,111.18 78	18,111.18 78	0.3703	0.4470	18,253.64 35
Total	7.3604	60.7640	70.0825	0.3801	34.1819	0.3707	34.5525	9.2487	0.3517	9.6003		41,182.95 06	41,182.95 06	0.9309	3.8834	42,363.48 61

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2911	57.5453	17.4856	0.2147	8.0670	0.2908	8.3579	2.3215	0.2782	2.5996		23,071.76 28	23,071.76 28	0.5606	3.4365	24,109.84 26
Worker	6.0693	3.2187	52.5970	0.1655	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		18,111.18 78	18,111.18 78	0.3703	0.4470	18,253.64 35
Total	7.3604	60.7640	70.0825	0.3801	34.1819	0.3707	34.5525	9.2487	0.3517	9.6003		41,182.95 06	41,182.95 06	0.9309	3.8834	42,363.48 61

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2672	57.0280	17.4252	0.2118	8.0667	0.2867	8.3533	2.3213	0.2742	2.5955		22,762.64 02	22,762.64 02	0.5536	3.3940	23,787.89 84
Worker	5.7660	3.0772	51.2154	0.1626	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		17,891.86 16	17,891.86 16	0.3480	0.4376	18,030.95 77
Total	7.0332	60.1053	68.6407	0.3744	34.1815	0.3617	34.5432	9.2485	0.3432	9.5918		40,654.50 17	40,654.50 17	0.9016	3.8316	41,818.85 61

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2672	57.0280	17.4252	0.2118	8.0667	0.2867	8.3533	2.3213	0.2742	2.5955		22,762.64 02	22,762.64 02	0.5536	3.3940	23,787.89 84
Worker	5.7660	3.0772	51.2154	0.1626	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		17,891.86 16	17,891.86 16	0.3480	0.4376	18,030.95 77
Total	7.0332	60.1053	68.6407	0.3744	34.1815	0.3617	34.5432	9.2485	0.3432	9.5918		40,654.50 17	40,654.50 17	0.9016	3.8316	41,818.85 61

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769
Total	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769
Total	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4
Total	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4
Total	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6
Total	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6
Total	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7
Total	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7
Total	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2
Total	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2
Total	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920
Total	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920
Total	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555
Total	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555
Total	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4
Total	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4
Total	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Unmitigated	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
NaturalGas Unmitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7689.91	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235.038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Unmitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.36160E-001	9.03990E-001	1.62322E+000	2.67000E-003	3.26600E-002	3.26600E-002	0.00000E+000	2.29793E+002	2.29793E+002	1.09600E-002	0.00000E+000	2.30067E+002
Cranes	2.28050E-001	1.62734E+000	1.22267E+000	5.05000E-003	6.56800E-002	6.12800E-002	0.00000E+000	4.38028E+002	4.38028E+002	7.50000E-002	0.00000E+000	4.39903E+002
Excavators	9.36300E-002	7.06440E-001	1.76152E+000	2.79000E-003	3.47200E-002	3.19400E-002	0.00000E+000	2.45088E+002	2.45088E+002	7.92700E-002	0.00000E+000	2.47070E+002
Forklifts	2.37150E-001	1.77992E+000	3.13782E+000	4.59000E-003	6.98400E-002	6.49400E-002	0.00000E+000	3.98470E+002	3.98470E+002	6.99900E-002	0.00000E+000	4.00220E+002
Generator Sets	2.08840E-001	1.89897E+000	3.28308E+000	5.92000E-003	6.06200E-002	6.06200E-002	0.00000E+000	5.08687E+002	5.08687E+002	1.66400E-002	0.00000E+000	5.09103E+002
Graders	8.96100E-002	1.02348E+000	4.38450E-001	1.79000E-003	3.30700E-002	3.04300E-002	0.00000E+000	1.56852E+002	1.56852E+002	5.07300E-002	0.00000E+000	1.58120E+002
Pavers	1.56400E-002	1.42480E-001	2.60620E-001	4.20000E-004	6.67000E-003	6.14000E-003	0.00000E+000	3.71487E+001	3.71487E+001	1.20100E-002	0.00000E+000	3.74490E+001
Paving Equipment	1.32100E-002	1.13820E-001	2.29180E-001	3.70000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.21947E+001	3.21947E+001	1.04100E-002	0.00000E+000	3.24550E+001
Rollers	1.23300E-002	1.29870E-001	1.66200E-001	2.40000E-004	6.53000E-003	6.01000E-003	0.00000E+000	2.07433E+001	2.07433E+001	6.71000E-003	0.00000E+000	2.09110E+001
Rubber Tired Dozers	2.73530E-001	2.81663E+000	1.24609E+000	3.46000E-003	1.25670E-001	1.15610E-001	0.00000E+000	3.03841E+002	3.03841E+002	9.82700E-002	0.00000E+000	3.06297E+002
Scrapers	3.85550E-001	3.78205E+000	3.05681E+000	8.19000E-003	1.49190E-001	1.37260E-001	0.00000E+000	7.19438E+002	7.19438E+002	2.32680E-001	0.00000E+000	7.25255E+002
Tractors/Loaders/Backhoes	4.59350E-001	3.83014E+000	7.00646E+000	1.03900E-002	1.33780E-001	1.24810E-001	0.00000E+000	9.04129E+002	9.04129E+002	1.87870E-001	0.00000E+000	9.08825E+002
Welders	1.73560E-001	1.14399E+000	1.46477E+000	2.30000E-003	2.61800E-002	2.61800E-002	0.00000E+000	1.69399E+002	1.69399E+002	1.40800E-002	0.00000E+000	1.69751E+002

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.36160E-001	9.03980E-001	1.62322E+000	2.67000E-003	3.26600E-002	3.26600E-002	0.00000E+000	2.29793E+002	2.29793E+002	1.09600E-002	0.00000E+000	2.30066E+002
Cranes	2.28050E-001	1.62733E+000	1.22267E+000	5.05000E-003	6.56800E-002	6.12800E-002	0.00000E+000	4.38027E+002	4.38027E+002	7.50000E-002	0.00000E+000	4.39902E+002
Excavators	9.36300E-002	7.06440E-001	1.76152E+000	2.79000E-003	3.47200E-002	3.19400E-002	0.00000E+000	2.45088E+002	2.45088E+002	7.92700E-002	0.00000E+000	2.47070E+002
Forklifts	2.37150E-001	1.77992E+000	3.13781E+000	4.59000E-003	6.98400E-002	6.49400E-002	0.00000E+000	3.98470E+002	3.98470E+002	6.99900E-002	0.00000E+000	4.00219E+002
Generator Sets	2.08840E-001	1.89897E+000	3.28308E+000	5.92000E-003	6.06200E-002	6.06200E-002	0.00000E+000	5.08686E+002	5.08686E+002	1.66400E-002	0.00000E+000	5.09102E+002
Graders	8.96100E-002	1.02348E+000	4.38450E-001	1.79000E-003	3.30700E-002	3.04300E-002	0.00000E+000	1.56851E+002	1.56851E+002	5.07300E-002	0.00000E+000	1.58120E+002
Pavers	1.56400E-002	1.42480E-001	2.60620E-001	4.20000E-004	6.67000E-003	6.14000E-003	0.00000E+000	3.71486E+001	3.71486E+001	1.20100E-002	0.00000E+000	3.74490E+001
Paving Equipment	1.32100E-002	1.13820E-001	2.29180E-001	3.70000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.21947E+001	3.21947E+001	1.04100E-002	0.00000E+000	3.24550E+001
Rollers	1.23300E-002	1.29870E-001	1.66200E-001	2.40000E-004	6.53000E-003	6.01000E-003	0.00000E+000	2.07433E+001	2.07433E+001	6.71000E-003	0.00000E+000	2.09110E+001
Rubber Tired Dozers	2.73530E-001	2.81663E+000	1.24609E+000	3.46000E-003	1.25670E-001	1.15610E-001	0.00000E+000	3.03840E+002	3.03840E+002	9.82700E-002	0.00000E+000	3.06297E+002
Scrapers	3.85550E-001	3.78205E+000	3.05681E+000	8.19000E-003	1.49190E-001	1.37260E-001	0.00000E+000	7.19437E+002	7.19437E+002	2.32680E-001	0.00000E+000	7.25254E+002
Tractors/Loaders/Balckhoes	4.59350E-001	3.83014E+000	7.00645E+000	1.03900E-002	1.33780E-001	1.24810E-001	0.00000E+000	9.04127E+002	9.04127E+002	1.87870E-001	0.00000E+000	9.08824E+002
Welders	1.73560E-001	1.14399E+000	1.46477E+000	2.30000E-003	2.61800E-002	2.61800E-002	0.00000E+000	1.69398E+002	1.69398E+002	1.40800E-002	0.00000E+000	1.69750E+002

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	1.10621E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21849E-006	1.21849E-006	0.00000E+000	0.00000E+000	1.17357E-006
Cranes	0.00000E+000	6.14500E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18714E-006	1.18714E-006	0.00000E+000	0.00000E+000	1.18208E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18325E-006	1.18325E-006	0.00000E+000	0.00000E+000	1.17376E-006
Forklifts	0.00000E+000	0.00000E+000	3.18693E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20461E-006	1.20461E-006	0.00000E+000	0.00000E+000	1.19934E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19917E-006	1.19917E-006	0.00000E+000	0.00000E+000	1.17854E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21134E-006	1.21134E-006	0.00000E+000	0.00000E+000	1.20162E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07675E-006	1.07675E-006	0.00000E+000	0.00000E+000	1.06812E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.31831E-007	9.31831E-007	0.00000E+000	0.00000E+000	1.23248E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.64167E-007	9.64167E-007	0.00000E+000	0.00000E+000	9.56433E-007
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18483E-006	1.18483E-006	0.00000E+000	0.00000E+000	1.20798E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18148E-006	1.18148E-006	0.00000E+000	0.00000E+000	1.18579E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	1.42725E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18346E-006	1.18346E-006	0.00000E+000	0.00000E+000	1.18835E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.17820E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
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Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	4.54	1.21	4.54	1.21	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	29.75	8.07	29.75	8.07	0.00	0.00
Grading	Fugitive Dust	4.30	1.19	4.30	1.19	0.00	0.00
Grading	Roads	0.36	0.10	0.36	0.10	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.96	0.46	0.96	0.46	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.03	0.20		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Airport South Industrial Project - Full Buildout of Annexation Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: Sacramento

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	
Sacramento	2029	HHDT	Aggregate	Aggregate	Diesel	10083.56489	944669.6263	944669.6263		0	113359.2238	2.380079274	0.027007233	0.028228381	1546.813686

HHDT	Total KSF	Trip Rate	Total Daily Trips	Avg VMT/Trip	Total VMT
Full Buildout	6,609.30	0.387181699	2,559.00	44.8	114,643.20
Proposed Project	5,204.50	0.387181699	2,015.09	44.8	90,275.90

HHDT	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr
Full Buildout	601.5536089	6.825948469	7.134587763	0.853243559	0.89182347	48,833.40
Proposed Project	473.6940005	5.375100057	5.618138383	0.671887507	0.702267298	38,453.91

Proposed Project Emissions							
	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr*	ROG (lbs/day)
CalEEMod	154.64	12.54	27.38	2.07	4.66	3,153.88	172.37
HHDT Emissions	473.69	5.38	5.62	0.67	0.70	38,453.91	N/A
Total	628.33	17.91	32.99	2.74	5.36	41,607.79	172.37

Full Buildout Emissions							
	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr*	ROG (lbs/day)
CalEEMod	137.01	12.70	38.71	2.22	6.79	5,089.08	214.49
HHDT Emissions	601.55	6.83	7.13	0.85	0.89	48,833.40	N/A
Total	738.56	19.52	45.84	3.07	7.68	53,922.48	214.49

* MTCO2e/yr is mobile emissions only. See CalEEMod for other emissions sources and total annual emissions.

VMT per Employee	Employees per ksf	Total KSF	Total VMT (daily)	Annual VMT
22.12	0.57208238	1,404.80	17,776.99	6,488,600.82

VMT per Employee	Employees per ksf	Total KSF	Total VMT (daily)	Annual VMT
22.12	0.57208238	6,609.30	83,637.14	30,527,555.11

Full buildout VMT	Future Industrial VMT	Project-Specific VMT	Porportion of VMT
16,817,740	3,574,593.55	13,243,146.45	21.255%

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included_Tier 4 Mitigation
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2029		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.
- Construction Off-road Equipment Mitigation - Required by implementation of MM 4.3-1 of EIR.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	1,000.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	180.00	50.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1347	1.6738	1.0528	3.5500e-003	1.1530	0.0600	1.2130	0.3806	0.0553	0.4359	0.0000	328.2200	328.2200	0.0646	0.0226	336.5686
2024	0.4717	6.8205	4.2208	0.0185	1.5974	0.1941	1.7914	0.5721	0.1792	0.7514	0.0000	1,740.3898	1,740.3898	0.2716	0.1608	1,795.0816
2025	6.1132	7.5458	10.9585	0.0456	3.7601	0.1133	3.8734	0.9383	0.1068	1.0451	0.0000	4,339.2314	4,339.2314	0.1803	0.3538	4,449.1700
2026	7.7926	8.9132	12.7041	0.0549	4.0723	0.1256	4.1979	1.1025	0.1188	1.2212	0.0000	5,248.5991	5,248.5991	0.1957	0.4302	5,381.6861
2027	7.7290	8.7394	12.2254	0.0536	4.0722	0.1240	4.1962	1.1024	0.1173	1.2197	0.0000	5,140.8665	5,140.8665	0.1890	0.4198	5,270.6954
2028	7.6416	8.5622	11.7815	0.0522	4.0566	0.1219	4.1785	1.0982	0.1153	1.2135	0.0000	5,022.8095	5,022.8095	0.1827	0.4088	5,149.1895
2029	0.5135	0.3004	0.4514	1.9300e-003	0.1611	4.5000e-003	0.1656	0.0435	4.2700e-003	0.0478	0.0000	186.4646	186.4646	6.5300e-003	0.0142	190.8559
Maximum	7.7926	8.9132	12.7041	0.0549	4.0723	0.1941	4.1979	1.1025	0.1792	1.2212	0.0000	5,248.5991	5,248.5991	0.2716	0.4302	5,381.6861

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0337	0.4742	1.2075	3.5500e-003	1.1530	6.0600e-003	1.1591	0.3806	5.9400e-003	0.3866	0.0000	328.2197	328.2197	0.0646	0.0226	336.5684
2024	0.1499	3.0114	4.9120	0.0185	1.5974	0.0324	1.6298	0.5721	0.0316	0.6037	0.0000	1,740.3889	1,740.3889	0.2716	0.1608	1,795.0808
2025	5.9725	6.1662	11.1791	0.0456	3.7601	0.0471	3.8072	0.9383	0.0449	0.9832	0.0000	4,339.2310	4,339.2310	0.1803	0.3538	4,449.1696
2026	7.6385	7.4448	12.8866	0.0549	4.0723	0.0559	4.1282	1.1025	0.0532	1.1556	0.0000	5,248.5987	5,248.5987	0.1957	0.4302	5,381.6857
2027	7.5750	7.2710	12.4080	0.0536	4.0722	0.0542	4.1265	1.1024	0.0516	1.1540	0.0000	5,140.8661	5,140.8661	0.1890	0.4198	5,270.6949
2028	7.4881	7.0994	11.9634	0.0522	4.0566	0.0524	4.1090	1.0982	0.0499	1.1481	0.0000	5,022.8091	5,022.8091	0.1827	0.4088	5,149.1891
2029	0.5075	0.2447	0.4578	1.9300e-003	0.1611	1.8600e-003	0.1629	0.0435	1.7700e-003	0.0453	0.0000	186.4646	186.4646	6.5300e-003	0.0142	190.8559
Maximum	7.6385	7.4448	12.8866	0.0549	4.0723	0.0559	4.1282	1.1025	0.0532	1.1556	0.0000	5,248.5987	5,248.5987	0.2716	0.4302	5,381.6857

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.39	25.48	-3.03	0.00	0.00	66.37	2.51	0.00	65.73	7.72	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	1.1982	0.2524
2	12-1-2023	2-29-2024	1.8532	0.8035
3	3-1-2024	5-31-2024	1.8099	0.7738
4	6-1-2024	8-31-2024	1.7934	0.7573

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	9-1-2024	11-30-2024	1.8064	0.7816
6	12-1-2024	2-28-2025	0.8869	0.3558
7	3-1-2025	5-31-2025	3.4390	3.0569
8	6-1-2025	8-31-2025	4.2238	3.8153
9	9-1-2025	11-30-2025	4.2542	3.8502
10	12-1-2025	2-28-2026	4.2005	3.8009
11	3-1-2026	5-31-2026	4.1954	3.7869
12	6-1-2026	8-31-2026	4.1574	3.7489
13	9-1-2026	11-30-2026	4.1870	3.7829
14	12-1-2026	2-28-2027	4.1376	3.7380
15	3-1-2027	5-31-2027	4.1349	3.7264
16	6-1-2027	8-31-2027	4.0977	3.6892
17	9-1-2027	11-30-2027	4.1264	3.7224
18	12-1-2027	2-29-2028	4.1280	3.7240
19	3-1-2028	5-31-2028	4.0832	3.6747
20	6-1-2028	8-31-2028	4.0466	3.6381
21	9-1-2028	11-30-2028	4.0747	3.6707
22	12-1-2028	2-28-2029	2.1512	1.9590
		Highest	4.2542	3.8502

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Energy	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	15,720.8882	15,720.8882	1.1743	0.2026	15,810.6260
Mobile	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Offroad	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Waste						0.0000	0.0000		0.0000	0.0000	1,362.6276	0.0000	1,362.6276	80.5290	0.0000	3,375.8522
Water						0.0000	0.0000		0.0000	0.0000	428.7769	980.9625	1,409.7394	1.5662	0.9434	1,730.0316
Total	29.4351	24.1882	51.8995	0.0851	3.4330	1.2284	4.6614	0.9174	1.1515	2.0689	1,791.4045	22,645.6917	24,437.0962	84.5807	1.3849	26,964.3114

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Energy	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	15,720.8882	15,720.8882	1.1743	0.2026	15,810.6260
Mobile	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Offroad	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Waste						0.0000	0.0000		0.0000	0.0000	1,362.6276	0.0000	1,362.6276	80.5290	0.0000	3,375.8522
Water						0.0000	0.0000		0.0000	0.0000	428.7769	980.8720	1,409.6489	1.5662	0.9434	1,729.9407
Total	29.4351	24.1882	51.8995	0.0851	3.4330	1.2284	4.6614	0.9174	1.1515	2.0689	1,791.4045	22,645.6013	24,437.0058	84.5807	1.3849	26,964.2204

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/3/2025	3/13/2025	5	50
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000
5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000

Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4914	0.0000	0.4914	0.2526	0.0000	0.2526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
Total	0.0665	0.6881	0.4561	9.5000e-004	0.4914	0.0317	0.5231	0.2526	0.0291	0.2817	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4914	0.0000	0.4914	0.2526	0.0000	0.2526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0504	0.5217	9.5000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
Total	0.0116	0.0504	0.5217	9.5000e-004	0.4914	1.5500e-003	0.4930	0.2526	1.5500e-003	0.2541	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760
Total	1.2900e-003	8.0000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6513	2.6513	8.0000e-005	8.0000e-005	2.6760

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6171	0.0000	0.6171	0.1159	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.6213	0.5049	1.1200e-003		0.0256	0.0256		0.0236	0.0236	0.0000	98.1634	98.1634	0.0318	0.0000	98.9571
Total	0.0598	0.6213	0.5049	1.1200e-003	0.6171	0.0256	0.6427	0.1159	0.0236	0.1395	0.0000	98.1634	98.1634	0.0318	0.0000	98.9571

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0600e-003	0.3630	0.0729	1.4300e-003	0.0386	2.6500e-003	0.0412	0.0106	2.5300e-003	0.0131	0.0000	141.6575	141.6575	5.6400e-003	0.0225	148.4918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.4000e-004	8.3900e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6600e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	2.1211	2.1211	7.0000e-005	6.0000e-005	2.1408
Total	7.0900e-003	0.3636	0.0813	1.4500e-003	0.0412	2.6600e-003	0.0439	0.0113	2.5400e-003	0.0139	0.0000	143.7785	143.7785	5.7100e-003	0.0225	150.6326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6171	0.0000	0.6171	0.1159	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0137	0.0594	0.5940	1.1200e-003		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	98.1633	98.1633	0.0318	0.0000	98.9570
Total	0.0137	0.0594	0.5940	1.1200e-003	0.6171	1.8300e-003	0.6189	0.1159	1.8300e-003	0.1177	0.0000	98.1633	98.1633	0.0318	0.0000	98.9570

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0600e-003	0.3630	0.0729	1.4300e-003	0.0386	2.6500e-003	0.0412	0.0106	2.5300e-003	0.0131	0.0000	141.6575	141.6575	5.6400e-003	0.0225	148.4918
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	6.4000e-004	8.3900e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6600e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	2.1211	2.1211	7.0000e-005	6.0000e-005	2.1408
Total	7.0900e-003	0.3636	0.0813	1.4500e-003	0.0412	2.6600e-003	0.0439	0.0113	2.5400e-003	0.0139	0.0000	143.7785	143.7785	5.7100e-003	0.0225	150.6326

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2976	0.0000	1.2976	0.4899	0.0000	0.4899	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4216	4.2414	3.6317	8.1300e-003		0.1749	0.1749		0.1609	0.1609	0.0000	714.2058	714.2058	0.2310	0.0000	719.9805
Total	0.4216	4.2414	3.6317	8.1300e-003	1.2976	0.1749	1.4725	0.4899	0.1609	0.6509	0.0000	714.2058	714.2058	0.2310	0.0000	719.9805

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0431	2.5750	0.5323	0.0102	0.2806	0.0190	0.2996	0.0771	0.0182	0.0953	0.0000	1,011.1328	1,011.1328	0.0402	0.1603	1,059.9166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0300e-003	4.1400e-003	0.0569	1.6000e-004	0.0192	1.0000e-004	0.0193	5.1200e-003	9.0000e-005	5.2100e-003	0.0000	15.0512	15.0512	4.4000e-004	4.1000e-004	15.1845
Total	0.0501	2.5791	0.5891	0.0104	0.2998	0.0191	0.3189	0.0822	0.0183	0.1005	0.0000	1,026.1840	1,026.1840	0.0406	0.1608	1,075.1012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2976	0.0000	1.2976	0.4899	0.0000	0.4899	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0998	0.4323	4.3229	8.1300e-003		0.0133	0.0133		0.0133	0.0133	0.0000	714.2049	714.2049	0.2310	0.0000	719.9796
Total	0.0998	0.4323	4.3229	8.1300e-003	1.2976	0.0133	1.3109	0.4899	0.0133	0.5032	0.0000	714.2049	714.2049	0.2310	0.0000	719.9796

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0431	2.5750	0.5323	0.0102	0.2806	0.0190	0.2996	0.0771	0.0182	0.0953	0.0000	1,011.1328	1,011.1328	0.0402	0.1603	1,059.9166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0300e-003	4.1400e-003	0.0569	1.6000e-004	0.0192	1.0000e-004	0.0193	5.1200e-003	9.0000e-005	5.2100e-003	0.0000	15.0512	15.0512	4.4000e-004	4.1000e-004	15.1845
Total	0.0501	2.5791	0.5891	0.0104	0.2998	0.0191	0.3189	0.0822	0.0183	0.1005	0.0000	1,026.1840	1,026.1840	0.0406	0.1608	1,075.1012

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5147	0.0000	0.5147	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0279	0.0263	6.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947
Total	2.9000e-003	0.0279	0.0263	6.0000e-005	0.5147	1.1300e-003	0.5158	0.0596	1.0400e-003	0.0606	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0191	4.0800e-003	8.0000e-005	2.1400e-003	1.4000e-004	2.2800e-003	5.9000e-004	1.4000e-004	7.2000e-004	0.0000	7.5569	7.5569	3.0000e-004	1.2000e-003	7.9216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1121	0.1121	0.0000	0.0000	0.1131
Total	3.7000e-004	0.0192	4.4900e-003	8.0000e-005	2.2900e-003	1.4000e-004	2.4300e-003	6.3000e-004	1.4000e-004	7.6000e-004	0.0000	7.6690	7.6690	3.0000e-004	1.2000e-003	8.0346

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5147	0.0000	0.5147	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	3.3000e-003	0.0330	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947
Total	7.6000e-004	3.3000e-003	0.0330	6.0000e-005	0.5147	1.0000e-004	0.5148	0.0596	1.0000e-004	0.0597	0.0000	5.4506	5.4506	1.7600e-003	0.0000	5.4947

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0191	4.0800e-003	8.0000e-005	2.1400e-003	1.4000e-004	2.2800e-003	5.9000e-004	1.4000e-004	7.2000e-004	0.0000	7.5569	7.5569	3.0000e-004	1.2000e-003	7.9216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1121	0.1121	0.0000	0.0000	0.1131
Total	3.7000e-004	0.0192	4.4900e-003	8.0000e-005	2.2900e-003	1.4000e-004	2.4300e-003	6.3000e-004	1.4000e-004	7.6000e-004	0.0000	7.6690	7.6690	3.0000e-004	1.2000e-003	8.0346

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0229	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4528
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0662	0.2145	0.3645	5.7000e-004		0.0105	0.0105		9.6300e-003	9.6300e-003	0.0000	50.0481	50.0481	0.0162	0.0000	50.4528

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200
Total	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0100e-003	0.0304	0.4324	5.7000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	50.0481	50.0481	0.0162	0.0000	50.4527
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0503	0.0304	0.4324	5.7000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	50.0481	50.0481	0.0162	0.0000	50.4527

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200
Total	9.4000e-004	5.3000e-004	7.6100e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7700e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1022	2.1022	6.0000e-005	5.0000e-005	2.1200

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801
Total	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1379	5.3709	1.5955	0.0210	0.6715	0.0288	0.7003	0.1941	0.0275	0.2216	0.0000	2,045.440 3	2,045.440 3	0.0500	0.3013	2,136.488 9
Worker	0.7402	0.4164	5.9643	0.0174	2.1582	0.0105	2.1687	0.5740	9.6600e-003	0.5837	0.0000	1,647.289 2	1,647.289 2	0.0451	0.0430	1,661.234 5
Total	0.8781	5.7873	7.5598	0.0384	2.8297	0.0393	2.8690	0.7681	0.0372	0.8053	0.0000	3,692.729 6	3,692.729 6	0.0951	0.3444	3,797.723 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.2335	1.8246	2.8200e-003		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798
Total	0.0343	0.2335	1.8246	2.8200e-003		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1379	5.3709	1.5955	0.0210	0.6715	0.0288	0.7003	0.1941	0.0275	0.2216	0.0000	2,045.440 3	2,045.440 3	0.0500	0.3013	2,136.488 9
Worker	0.7402	0.4164	5.9643	0.0174	2.1582	0.0105	2.1687	0.5740	9.6600e-003	0.5837	0.0000	1,647.289 2	1,647.289 2	0.0451	0.0430	1,661.234 5
Total	0.8781	5.7873	7.5598	0.0384	2.8297	0.0393	2.8690	0.7681	0.0372	0.8053	0.0000	3,692.729 6	3,692.729 6	0.0951	0.3444	3,797.723 3

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1662	6.5709	1.9528	0.0257	0.8385	0.0350	0.8736	0.2424	0.0335	0.2759	0.0000	2,502.9564	2,502.9564	0.0610	0.3695	2,614.5828
Worker	0.8720	0.4713	7.0142	0.0211	2.6951	0.0125	2.7076	0.7168	0.0115	0.7283	0.0000	2,008.2946	2,008.2946	0.0514	0.0506	2,024.6604
Total	1.0382	7.0422	8.9671	0.0468	3.5337	0.0475	3.5812	0.9592	0.0450	1.0042	0.0000	4,511.2510	4,511.2510	0.1124	0.4201	4,639.2432

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1662	6.5709	1.9528	0.0257	0.8385	0.0350	0.8736	0.2424	0.0335	0.2759	0.0000	2,502.9564	2,502.9564	0.0610	0.3695	2,614.5828
Worker	0.8720	0.4713	7.0142	0.0211	2.6951	0.0125	2.7076	0.7168	0.0115	0.7283	0.0000	2,008.2946	2,008.2946	0.0514	0.0506	2,024.6604
Total	1.0382	7.0422	8.9671	0.0468	3.5337	0.0475	3.5812	0.9592	0.0450	1.0042	0.0000	4,511.2510	4,511.2510	0.1124	0.4201	4,639.2432

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1608	6.4460	1.9190	0.0251	0.8385	0.0342	0.8727	0.2423	0.0327	0.2751	0.0000	2,449.2957	2,449.2957	0.0594	0.3622	2,558.7236
Worker	0.8235	0.4306	6.6435	0.0204	2.6951	0.0118	2.7070	0.7168	0.0109	0.7277	0.0000	1,963.2294	1,963.2294	0.0472	0.0480	1,978.7119
Total	0.9843	6.8765	8.5625	0.0456	3.5336	0.0460	3.5796	0.9592	0.0436	1.0028	0.0000	4,412.5251	4,412.5251	0.1066	0.4102	4,537.4355

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1608	6.4460	1.9190	0.0251	0.8385	0.0342	0.8727	0.2423	0.0327	0.2751	0.0000	2,449.2957	2,449.2957	0.0594	0.3622	2,558.7236
Worker	0.8235	0.4306	6.6435	0.0204	2.6951	0.0118	2.7070	0.7168	0.0109	0.7277	0.0000	1,963.2294	1,963.2294	0.0472	0.0480	1,978.7119
Total	0.9843	6.8765	8.5625	0.0456	3.5336	0.0460	3.5796	0.9592	0.0436	1.0028	0.0000	4,412.5251	4,412.5251	0.1066	0.4102	4,537.4355

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1554	6.3177	1.8846	0.0245	0.8352	0.0334	0.8685	0.2414	0.0319	0.2733	0.0000	2,389.8098	2,389.8098	0.0580	0.3540	2,496.7475
Worker	0.7761	0.3954	6.3097	0.0198	2.6848	0.0111	2.6959	0.7141	0.0102	0.7242	0.0000	1,915.4872	1,915.4872	0.0433	0.0457	1,930.1766
Total	0.9315	6.7132	8.1943	0.0443	3.5200	0.0444	3.5644	0.9555	0.0421	0.9975	0.0000	4,305.2970	4,305.2970	0.1013	0.3996	4,426.9241

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1554	6.3177	1.8846	0.0245	0.8352	0.0334	0.8685	0.2414	0.0319	0.2733	0.0000	2,389.8098	2,389.8098	0.0580	0.3540	2,496.7475
Worker	0.7761	0.3954	6.3097	0.0198	2.6848	0.0111	2.6959	0.7141	0.0102	0.7242	0.0000	1,915.4872	1,915.4872	0.0433	0.0457	1,930.1766
Total	0.9315	6.7132	8.1943	0.0443	3.5200	0.0444	3.5644	0.9555	0.0421	0.9975	0.0000	4,305.2970	4,305.2970	0.1013	0.3996	4,426.9241

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977
Total	6.1500e-003	0.0561	0.0724	1.2000e-004		2.3700e-003	2.3700e-003		2.2300e-003	2.2300e-003	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2300e-003	0.2154	0.0644	8.3000e-004	0.0289	1.1300e-003	0.0300	8.3500e-003	1.0800e-003	9.4400e-003	0.0000	81.1011	81.1011	1.9700e-003	0.0120	84.7353
Worker	0.0254	0.0127	0.2092	6.7000e-004	0.0929	3.6000e-004	0.0933	0.0247	3.3000e-004	0.0251	0.0000	65.0539	65.0539	1.3900e-003	1.5200e-003	65.5409
Total	0.0306	0.2281	0.2736	1.5000e-003	0.1219	1.4900e-003	0.1233	0.0331	1.4100e-003	0.0345	0.0000	146.1550	146.1550	3.3600e-003	0.0136	150.2762

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4800e-003	0.0101	0.0786	1.2000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977
Total	1.4800e-003	0.0101	0.0786	1.2000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	10.4364	10.4364	2.4500e-003	0.0000	10.4977

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2300e-003	0.2154	0.0644	8.3000e-004	0.0289	1.1300e-003	0.0300	8.3500e-003	1.0800e-003	9.4400e-003	0.0000	81.1011	81.1011	1.9700e-003	0.0120	84.7353
Worker	0.0254	0.0127	0.2092	6.7000e-004	0.0929	3.6000e-004	0.0933	0.0247	3.3000e-004	0.0251	0.0000	65.0539	65.0539	1.3900e-003	1.5200e-003	65.5409
Total	0.0306	0.2281	0.2736	1.5000e-003	0.1219	1.4900e-003	0.1233	0.0331	1.4100e-003	0.0345	0.0000	146.1550	146.1550	3.3600e-003	0.0136	150.2762

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4049	25.4049	1.3900e-003	0.0000	25.4395
Total	4.8810	0.1140	0.1800	3.0000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	25.4049	25.4049	1.3900e-003	0.0000	25.4395

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249
Total	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9600e-003	0.0128	0.1823	3.0000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.4048	25.4048	1.3900e-003	0.0000	25.4395
Total	4.8670	0.0128	0.1823	3.0000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.4048	25.4048	1.3900e-003	0.0000	25.4395

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249
Total	0.1409	0.0792	1.1350	3.3200e-003	0.4107	2.0000e-003	0.4127	0.1092	1.8400e-003	0.1111	0.0000	313.4712	313.4712	8.5900e-003	8.1800e-003	316.1249

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441
Total	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	6.3833	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441
Total	0.1743	0.0942	1.4019	4.2100e-003	0.5386	2.5000e-003	0.5411	0.1433	2.3000e-003	0.1456	0.0000	401.3732	401.3732	0.0103	0.0101	404.6441

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	6.4017	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609
Total	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	6.3833	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609
Total	0.1646	0.0861	1.3278	4.0900e-003	0.5386	2.3600e-003	0.5410	0.1433	2.1700e-003	0.1454	0.0000	392.3666	392.3666	9.4200e-003	9.5900e-003	395.4609

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3550					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	6.3772	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608
Total	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3550					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	6.3589	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608
Total	0.1551	0.0790	1.2610	3.9600e-003	0.5366	2.2100e-003	0.5388	0.1427	2.0300e-003	0.1447	0.0000	382.8250	382.8250	8.6500e-003	9.1300e-003	385.7608

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6200e-003	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289
Total	0.4660	0.0109	0.0172	3.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531
Total	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4644					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8000e-004	1.2200e-003	0.0174	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289
Total	0.4647	1.2200e-003	0.0174	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.4256	2.4256	1.3000e-004	0.0000	2.4289

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531
Total	0.0107	5.3600e-003	0.0883	2.8000e-004	0.0392	1.5000e-004	0.0394	0.0104	1.4000e-004	0.0106	0.0000	27.4477	27.4477	5.8000e-004	6.4000e-004	27.6531

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803
Unmitigated	4.2243	3.2322	24.6452	0.0316	3.4330	0.0285	3.4615	0.9174	0.0266	0.9439	0.0000	3,073.1436	3,073.1436	0.3822	0.2389	3,153.8803

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11,955.6206	11,955.6206	1.1021	0.1336	12,022.9832
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11,955.6206	11,955.6206	1.1021	0.1336	12,022.9832
NaturalGas Mitigated	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427
NaturalGas Unmitigated	0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2806.82	2.0000e-005	1.4000e-004	1.2000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1498	0.1498	0.0000	0.0000	0.1507
Industrial Park	6.75544e+007	0.3643	3.3115	2.7817	0.0199		0.2517	0.2517		0.2517	0.2517	0.0000	3,604.9606	3,604.9606	0.0691	0.0661	3,626.3831
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2806.82	2.0000e-005	1.4000e-004	1.2000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1498	0.1498	0.0000	0.0000	0.1507
Industrial Park	6.75544e+007	0.3643	3.3115	2.7817	0.0199		0.2517	0.2517		0.2517	0.2517	0.0000	3,604.9606	3,604.9606	0.0691	0.0661	3,626.3831
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.3805	3.4588	2.9054	0.0208		0.2629	0.2629		0.2629	0.2629	0.0000	3,765.2676	3,765.2676	0.0722	0.0690	3,787.6427

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691.428	0.1123	1.0000e-005	0.0000	0.1129
Industrial Park	7.23426e+007	11,746.7660	1.0829	0.1313	11,812.9519
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		11,955.6206	1.1021	0.1336	12,022.9832

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691.428	0.1123	1.0000e-005	0.0000	0.1129
Industrial Park	7.23426e+007	11,746.7660	1.0829	0.1313	11,812.9519
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		11,955.6206	1.1021	0.1336	12,022.9832

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Unmitigated	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4442					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	20.5182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0106	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Total	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4442					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	20.5182					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0106	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388
Total	22.9730	1.0400e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2242	0.2242	5.8000e-004	0.0000	0.2388

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.6489	1.5662	0.9434	1,729.9407
Unmitigated	1,409.7394	1.5662	0.9434	1,730.0316

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1203.54 / 0	1,399.5507	1.5554	0.9369	1,717.6276
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,409.7394	1.5662	0.9434	1,730.0316

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1203.54 / 0	1,399.5507	1.5554	0.9369	1,717.6276
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,409.6489	1.5662	0.9434	1,729.9407

8.0 Waste Detail

8.1 Mitigation Measures Waste

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,362.627 6	80.5290	0.0000	3,375.852 2
Unmitigated	1,362.627 6	80.5290	0.0000	3,375.852 2

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	6453.58	1,310.018 4	77.4199	0.0000	3,245.515 2
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,362.627 6	80.5290	0.0000	3,375.852 2

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	6453.58	1,310.0184	77.4199	0.0000	3,245.5152
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,362.6276	80.5290	0.0000	3,375.8522

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826
Total	1.8573	17.4962	24.2339	0.0327		0.9366	0.9366		0.8617	0.8617	0.0000	2,870.4734	2,870.4734	0.9284	0.0000	2,893.6826

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included_Tier 4 Mitigation
Sacramento Metropolitan AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2029		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.
- Construction Off-road Equipment Mitigation - Required by implementation of MM 4.3-1 of EIR.

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	1,000.00

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	180.00	50.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.7328	53.5873	32.6150	0.1430	19.7939	1.5721	21.0607	10.1388	1.4517	11.3042	0.0000	14,826.78 23	14,826.78 23	2.2940	1.3786	15,294.95 91
2024	3.6170	50.9642	32.2622	0.1413	11.7736	1.4812	13.2547	4.3305	1.3680	5.6985	0.0000	14,654.57 10	14,654.57 10	2.2854	1.3520	15,114.60 89
2025	61.7474	66.8017	112.5459	0.4500	32.2797	1.2738	33.2534	8.7116	1.1771	9.6326	0.0000	47,241.40 82	47,241.40 82	2.2793	3.6879	48,382.47 37
2026	61.1297	65.4010	107.4953	0.4389	32.2790	0.9614	33.2404	8.7114	0.9093	9.6207	0.0000	46,260.23 60	46,260.23 60	1.6230	3.6007	47,373.80 49
2027	60.5618	64.1499	103.2045	0.4283	32.2784	0.9490	33.2273	8.7112	0.8977	9.6088	0.0000	45,303.29 97	45,303.29 97	1.5679	3.5148	46,389.90 72
2028	60.0461	63.1106	99.6443	0.4185	32.2778	0.9369	33.2147	8.7110	0.8863	9.5973	0.0000	44,427.96 65	44,427.96 65	1.5221	3.4362	45,490.01 64
2029	59.5439	62.1670	96.5766	0.4096	32.2773	0.9252	33.2026	8.7108	0.8754	9.5862	0.0000	43,626.14 59	43,626.14 59	1.4815	3.3643	44,665.73 45
Maximum	61.7474	66.8017	112.5459	0.4500	32.2797	1.5721	33.2534	10.1388	1.4517	11.3042	0.0000	47,241.40 82	47,241.40 82	2.2940	3.6879	48,382.47 37

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	172.3703	152.2217	309.2347	0.5168	19.5314	7.8445	27.3759	5.2046	7.3341	12.5388	0.0000	63,685.1862	63,685.1862	9.3390	1.8064	64,456.9799

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	172.3703	152.2217	309.2347	0.5168	19.5314	7.8445	27.3759	5.2046	7.3341	12.5388	0.0000	63,685.1862	63,685.1862	9.3390	1.8064	64,456.9799

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	
3	Paving	Paving	1/3/2025	3/13/2025	5	50	
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000	

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000
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Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960		6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3437	19.0393	4.0187	0.0795	2.2088	0.1468	2.3556	0.6049	0.1405	0.7453		8,672.9648	8,672.9648	0.3459	1.3751	9,091.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.4111	19.0717	4.5638	0.0809	2.3610	0.1476	2.5086	0.6452	0.1412	0.7864		8,815.3045	8,815.3045	0.3498	1.3786	9,234.8755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3437	19.0393	4.0187	0.0795	2.2088	0.1468	2.3556	0.6049	0.1405	0.7453		8,672.9648	8,672.9648	0.3459	1.3751	9,091.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	0.4111	19.0717	4.5638	0.0809	2.3610	0.1476	2.5086	0.6452	0.1412	0.7864		8,815.3045	8,815.3045	0.3498	1.3786	9,234.8755

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141		6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3359	18.5583	4.0335	0.0779	2.2083	0.1450	2.3533	0.6047	0.1388	0.7434		8,506.0718	8,506.0718	0.3382	1.3488	8,916.4606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.3989	18.5872	4.5394	0.0793	2.3604	0.1458	2.5062	0.6450	0.1394	0.7844		8,644.8223	8,644.8223	0.3418	1.3520	9,056.2684

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3359	18.5583	4.0335	0.0779	2.2083	0.1450	2.3533	0.6047	0.1388	0.7434		8,506.0718	8,506.0718	0.3382	1.3488	8,916.4606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.3989	18.5872	4.5394	0.0793	2.3604	0.1458	2.5062	0.6450	0.1394	0.7844		8,644.8223	8,644.8223	0.3418	1.3520	9,056.2684

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259		6,008.2814	6,008.2814	1.9432		6,056.8614

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3284	18.0584	4.0483	0.0762	2.2078	0.1422	2.3500	0.6045	0.1360	0.7405		8,327.756 2	8,327.756 2	0.3329	1.3207	8,729.632 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.3875	18.0843	4.5207	0.0775	2.3599	0.1429	2.5028	0.6448	0.1367	0.7815		8,463.120 1	8,463.120 1	0.3361	1.3237	8,865.982 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3284	18.0584	4.0483	0.0762	2.2078	0.1422	2.3500	0.6045	0.1360	0.7405		8,327.756 2	8,327.756 2	0.3329	1.3207	8,729.632 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.3875	18.0843	4.5207	0.0775	2.3599	0.1429	2.5028	0.6448	0.1367	0.7815		8,463.120 1	8,463.120 1	0.3361	1.3237	8,865.982 0

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
Total	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0112	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624
Total	0.0443	0.0194	0.3542	9.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		101.5229	101.5229	2.4000e-003	2.2800e-003	102.2624

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3549	48.8178	14.9713	0.2009	6.6137	0.2742	6.8879	1.9035	0.2623	2.1658		21,567.60 44	21,567.60 44	0.5279	3.1749	22,526.91 30
Worker	8.3090	3.6410	66.4085	0.1827	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		19,032.15 72	19,032.15 72	0.4491	0.4276	19,170.79 82
Total	9.6639	52.4588	81.3799	0.3836	28.0045	0.3746	28.3791	7.5776	0.3547	7.9323		40,599.76 16	40,599.76 16	0.9770	3.6024	41,697.71 12

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3549	48.8178	14.9713	0.2009	6.6137	0.2742	6.8879	1.9035	0.2623	2.1658		21,567.60 44	21,567.60 44	0.5279	3.1749	22,526.91 30
Worker	8.3090	3.6410	66.4085	0.1827	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		19,032.15 72	19,032.15 72	0.4491	0.4276	19,170.79 82
Total	9.6639	52.4588	81.3799	0.3836	28.0045	0.3746	28.3791	7.5776	0.3547	7.9323		40,599.76 16	40,599.76 16	0.9770	3.6024	41,697.71 12

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3077	47.8244	14.6761	0.1968	6.6130	0.2675	6.8805	1.9033	0.2558	2.1591		21,132.67 95	21,132.67 95	0.5162	3.1172	22,074.50 07
Worker	7.8336	3.3016	62.4452	0.1769	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		18,576.89 72	18,576.89 72	0.4088	0.4030	18,707.19 61
Total	9.1413	51.1260	77.1213	0.3737	28.0039	0.3632	28.3671	7.5774	0.3439	7.9213		39,709.57 66	39,709.57 66	0.9250	3.5201	40,781.69 68

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3077	47.8244	14.6761	0.1968	6.6130	0.2675	6.8805	1.9033	0.2558	2.1591		21,132.67 95	21,132.67 95	0.5162	3.1172	22,074.50 07
Worker	7.8336	3.3016	62.4452	0.1769	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		18,576.89 72	18,576.89 72	0.4088	0.4030	18,707.19 61
Total	9.1413	51.1260	77.1213	0.3737	28.0039	0.3632	28.3671	7.5774	0.3439	7.9213		39,709.57 66	39,709.57 66	0.9250	3.5201	40,781.69 68

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2657	46.9140	14.4249	0.1925	6.6124	0.2613	6.8737	1.9030	0.2500	2.1530		20,678.76 04	20,678.76 04	0.5030	3.0561	21,602.04 64
Worker	7.3953	3.0176	59.0785	0.1715	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		18,157.66 65	18,157.66 65	0.3739	0.3823	18,280.94 28
Total	8.6610	49.9316	73.5034	0.3641	28.0033	0.3518	28.3551	7.5772	0.3333	7.9104		38,836.42 69	38,836.42 69	0.8769	3.4384	39,882.98 91

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2657	46.9140	14.4249	0.1925	6.6124	0.2613	6.8737	1.9030	0.2500	2.1530		20,678.76 04	20,678.76 04	0.5030	3.0561	21,602.04 64
Worker	7.3953	3.0176	59.0785	0.1715	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		18,157.66 65	18,157.66 65	0.3739	0.3823	18,280.94 28
Total	8.6610	49.9316	73.5034	0.3641	28.0033	0.3518	28.3551	7.5772	0.3333	7.9104		38,836.42 69	38,836.42 69	0.8769	3.4384	39,882.98 91

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2288	46.1556	14.2243	0.1885	6.6119	0.2559	6.8677	1.9028	0.2448	2.1476		20,253.39 33	20,253.39 33	0.4932	2.9981	21,159.14 56
Worker	6.9962	2.7835	56.2785	0.1667	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		17,782.65 03	17,782.65 03	0.3439	0.3652	17,900.07 26
Total	8.2250	48.9391	70.5028	0.3553	28.0027	0.3408	28.3435	7.5770	0.3230	7.8999		38,036.04 36	38,036.04 36	0.8371	3.3632	39,059.21 82

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2288	46.1556	14.2243	0.1885	6.6119	0.2559	6.8677	1.9028	0.2448	2.1476		20,253.39 33	20,253.39 33	0.4932	2.9981	21,159.14 56
Worker	6.9962	2.7835	56.2785	0.1667	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		17,782.65 03	17,782.65 03	0.3439	0.3652	17,900.07 26
Total	8.2250	48.9391	70.5028	0.3553	28.0027	0.3408	28.3435	7.5770	0.3230	7.8999		38,036.04 36	38,036.04 36	0.8371	3.3632	39,059.21 82

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1945	45.4497	14.0506	0.1848	6.6113	0.2506	6.8620	1.9026	0.2398	2.1424		19,855.32 89	19,855.32 89	0.4842	2.9434	20,744.56 15
Worker	6.6063	2.5854	53.8665	0.1624	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		17,446.14 69	17,446.14 69	0.3176	0.3508	17,558.61 73
Total	7.8008	48.0351	67.9171	0.3472	28.0022	0.3303	28.3325	7.5768	0.3130	7.8898		37,301.47 58	37,301.47 58	0.8017	3.2942	38,303.17 87

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1945	45.4497	14.0506	0.1848	6.6113	0.2506	6.8620	1.9026	0.2398	2.1424		19,855.32 89	19,855.32 89	0.4842	2.9434	20,744.56 15
Worker	6.6063	2.5854	53.8665	0.1624	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		17,446.14 69	17,446.14 69	0.3176	0.3508	17,558.61 73
Total	7.8008	48.0351	67.9171	0.3472	28.0022	0.3303	28.3325	7.5768	0.3130	7.8898		37,301.47 58	37,301.47 58	0.8017	3.2942	38,303.17 87

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6
Total	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6
Total	1.6606	0.7277	13.2723	0.0365	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,803.724 2	3,803.724 2	0.0898	0.0855	3,831.432 6

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2
Total	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2
Total	1.5656	0.6598	12.4802	0.0354	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,712.736 9	3,712.736 9	0.0817	0.0805	3,738.778 2

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1
Total	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1
Total	1.4780	0.6031	11.8073	0.0343	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,628.950 4	3,628.950 4	0.0747	0.0764	3,653.588 1

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3
Total	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3
Total	1.3983	0.5563	11.2477	0.0333	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,554.000 5	3,554.000 5	0.0687	0.0730	3,577.468 3

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8
Total	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8
Total	1.3203	0.5167	10.7656	0.0325	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,486.747 7	3,486.747 7	0.0635	0.0701	3,509.225 8

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253
Unmitigated	31.9976	16.6196	130.8355	0.1852	19.5314	0.1567	19.6881	5.2046	0.1458	5.3505		19,846.3660	19,846.3660	2.0756	1.3895	20,312.3253

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
NaturalGas Unmitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	0.00768991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185.081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Unmitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**ASIP - No Future Development Included_Tier 4 Mitigation
Sacramento Metropolitan AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	5,204.50	1000sqft	235.60	5,204,500.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73.40	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2029		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.
- Construction Off-road Equipment Mitigation - Required by implementation of MM 4.3-1 of EIR.

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	1,000.00

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	4,650.00	1,000.00
tblConstructionPhase	NumDays	465.00	300.00
tblConstructionPhase	NumDays	330.00	50.00
tblConstructionPhase	NumDays	180.00	50.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73.40
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	119.48	235.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	95.00
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CC_TL	5.00	1.55
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CNW_TL	6.50	2.01
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10
tblVehicleTrips	CW_TL	10.00	3.10

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.7089	55.1410	32.6179	0.1428	19.7939	1.5726	21.0607	10.1388	1.4523	11.3042	0.0000	14,815.9901	14,815.9901	2.2937	1.3800	15,284.5657
2024	3.5936	52.4820	32.2709	0.1412	11.7736	1.4817	13.2553	4.3305	1.3685	5.6990	0.0000	14,644.5152	14,644.5152	2.2851	1.3534	15,104.9529
2025	60.5875	71.4686	103.5458	0.4261	32.2797	1.2743	33.2560	8.7116	1.1776	9.6351	0.0000	44,751.9473	44,751.9473	2.2789	3.7700	45,919.6240
2026	60.0480	69.9135	99.2382	0.4159	32.2790	0.9637	33.2427	8.7114	0.9116	9.6230	0.0000	43,837.1420	43,837.1420	1.7031	3.6781	44,975.7825
2027	59.5474	68.5287	95.5428	0.4060	32.2784	0.9511	33.2295	8.7112	0.8997	9.6109	0.0000	42,940.0946	42,940.0946	1.6428	3.5883	44,050.4771
2028	59.0882	67.3801	92.4577	0.3969	32.2778	0.9388	33.2167	8.7110	0.8882	9.5992	0.0000	42,117.4332	42,117.4332	1.5923	3.5065	43,202.1747
2029	58.6423	66.3402	89.7718	0.3886	32.2773	0.9270	33.2043	8.7108	0.8771	9.5879	0.0000	41,362.0491	41,362.0491	1.5473	3.4318	42,423.4121
Maximum	60.5875	71.4686	103.5458	0.4261	32.2797	1.5726	33.2560	10.1388	1.4523	11.3042	0.0000	44,751.9473	44,751.9473	2.2937	3.7700	45,919.6240

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	161.4843	154.6356	333.5700	0.5028	19.5314	7.8451	27.3765	5.2046	7.3347	12.5393	0.0000	62,187.9454	62,187.9454	9.8701	1.9524	63,016.5061

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Energy	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
Mobile	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Offroad	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	161.4843	154.6356	333.5700	0.5028	19.5314	7.8451	27.3765	5.2046	7.3347	12.5393	0.0000	62,187.9454	62,187.9454	9.8701	1.9524	63,016.5061

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	11/9/2023	5	50	
2	Grading	Grading	11/10/2023	1/2/2025	5	300	
3	Paving	Paving	1/3/2025	3/13/2025	5	50	
4	Building Construction	Building Construction	3/14/2025	1/11/2029	5	1000	

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	3/28/2025	1/25/2029	5	1000
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Acres of Grading (Site Preparation Phase): 75

Acres of Grading (Grading Phase): 900

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,844,060; Non-Residential Outdoor: 2,614,687; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,812.00	1,098.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	562.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.4132	1.4245	10.8376	3.6855	1.3105	4.9960		6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3275	20.5856	4.0920	0.0795	2.2088	0.1474	2.3562	0.6049	0.1410	0.7458		8,677.8967	8,677.8967	0.3450	1.3760	9,096.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.3872	20.6254	4.5667	0.0808	2.3610	0.1482	2.5091	0.6452	0.1417	0.7869		8,804.5123	8,804.5123	0.3495	1.3800	9,224.4822

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3275	20.5856	4.0920	0.0795	2.2088	0.1474	2.3562	0.6049	0.1410	0.7458		8,677.8967	8,677.8967	0.3450	1.3760	9,096.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	0.3872	20.6254	4.5667	0.0808	2.3610	0.1482	2.5091	0.6452	0.1417	0.7869		8,804.5123	8,804.5123	0.3495	1.3800	9,224.4822

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.4132	1.3354	10.7486	3.6855	1.2286	4.9141		6,009.7487	6,009.7487	1.9437		6,058.3405

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3196	20.0696	4.1053	0.0780	2.2083	0.1455	2.3538	0.6047	0.1392	0.7439		8,511.303 1	8,511.303 1	0.3374	1.3497	8,921.936 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.3754	20.1050	4.5481	0.0792	2.3604	0.1463	2.5067	0.6450	0.1399	0.7849		8,634.766 5	8,634.766 5	0.3415	1.3534	9,046.612 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3196	20.0696	4.1053	0.0780	2.2083	0.1455	2.3538	0.6047	0.1392	0.7439		8,511.303 1	8,511.303 1	0.3374	1.3497	8,921.936 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.3754	20.1050	4.5481	0.0792	2.3604	0.1463	2.5067	0.6450	0.1399	0.7849		8,634.766 5	8,634.766 5	0.3415	1.3534	9,046.612 4

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.4132	1.1309	10.5440	3.6855	1.0404	4.7259		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3119	19.5323	4.1182	0.0763	2.2078	0.1427	2.3504	0.6045	0.1365	0.7410		8,333.2177	8,333.2177	0.3320	1.3216	8,735.3484
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.3645	19.5641	4.5331	0.0775	2.3599	0.1434	2.5033	0.6448	0.1371	0.7820		8,453.7025	8,453.7025	0.3357	1.3251	8,856.9643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4132	0.0000	9.4132	3.6855	0.0000	3.6855			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7616	3.3000	32.9991	0.0621	9.4132	0.1015	9.5147	3.6855	0.1015	3.7870	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3119	19.5323	4.1182	0.0763	2.2078	0.1427	2.3504	0.6045	0.1365	0.7410		8,333.2177	8,333.2177	0.3320	1.3216	8,735.3484
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.3645	19.5641	4.5331	0.0775	2.3599	0.1434	2.5033	0.6448	0.1371	0.7820		8,453.7025	8,453.7025	0.3357	1.3251	8,856.9643

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6459	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0112	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e-004	0.1141	5.4000e-004	0.1146	0.0303	4.9000e-004	0.0308		90.3636	90.3636	2.7900e-003	2.6100e-003	91.2120

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3054	52.4993	15.6598	0.2011	6.6137	0.2768	6.8905	1.9035	0.2648	2.1683		21,588.23 35	21,588.23 35	0.5254	3.1823	22,549.68 69
Worker	7.3836	4.4623	58.3337	0.1626	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		16,940.16 76	16,940.16 76	0.5227	0.4898	17,099.19 95
Total	8.6890	56.9616	73.9936	0.3637	28.0045	0.3772	28.3818	7.5776	0.3572	7.9348		38,528.40 11	38,528.40 11	1.0480	3.6721	39,648.88 64

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3054	52.4993	15.6598	0.2011	6.6137	0.2768	6.8905	1.9035	0.2648	2.1683		21,588.23 35	21,588.23 35	0.5254	3.1823	22,549.68 69
Worker	7.3836	4.4623	58.3337	0.1626	21.3909	0.1004	21.4913	5.6741	0.0924	5.7665		16,940.16 76	16,940.16 76	0.5227	0.4898	17,099.19 95
Total	8.6890	56.9616	73.9936	0.3637	28.0045	0.3772	28.3818	7.5776	0.3572	7.9348		38,528.40 11	38,528.40 11	1.0480	3.6721	39,648.88 64

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2572	51.4457	15.3442	0.1970	6.6130	0.2698	6.8828	1.9033	0.2581	2.1613		21,155.1556	21,155.1556	0.5137	3.1244	22,099.0792
Worker	6.9741	4.0444	55.0067	0.1575	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		16,538.6805	16,538.6805	0.4776	0.4614	16,688.1227
Total	8.2313	55.4900	70.3509	0.3545	28.0039	0.3655	28.3694	7.5774	0.3462	7.9236		37,693.8361	37,693.8361	0.9913	3.5859	38,787.2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2572	51.4457	15.3442	0.1970	6.6130	0.2698	6.8828	1.9033	0.2581	2.1613		21,155.1556	21,155.1556	0.5137	3.1244	22,099.0792
Worker	6.9741	4.0444	55.0067	0.1575	21.3909	0.0957	21.4866	5.6741	0.0881	5.7622		16,538.6805	16,538.6805	0.4776	0.4614	16,688.1227
Total	8.2313	55.4900	70.3509	0.3545	28.0039	0.3655	28.3694	7.5774	0.3462	7.9236		37,693.8361	37,693.8361	0.9913	3.5859	38,787.2019

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2142	50.4802	15.0734	0.1928	6.6124	0.2634	6.8759	1.9030	0.2520	2.1550		20,702.78 66	20,702.78 66	0.5004	3.0632	21,628.14 17
Worker	6.5928	3.6948	52.1525	0.1527	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		16,168.07 12	16,168.07 12	0.4385	0.4376	16,309.43 79
Total	7.8069	54.1751	67.2259	0.3455	28.0033	0.3539	28.3572	7.5772	0.3353	7.9124		36,870.85 78	36,870.85 78	0.9389	3.5008	37,937.57 96

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2142	50.4802	15.0734	0.1928	6.6124	0.2634	6.8759	1.9030	0.2520	2.1550		20,702.78 66	20,702.78 66	0.5004	3.0632	21,628.14 17
Worker	6.5928	3.6948	52.1525	0.1527	21.3909	0.0905	21.4814	5.6741	0.0833	5.7574		16,168.07 12	16,168.07 12	0.4385	0.4376	16,309.43 79
Total	7.8069	54.1751	67.2259	0.3455	28.0033	0.3539	28.3572	7.5772	0.3353	7.9124		36,870.85 78	36,870.85 78	0.9389	3.5008	37,937.57 96

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1762	49.6775	14.8539	0.1888	6.6119	0.2578	6.8696	1.9028	0.2466	2.1494		20,278.69 48	20,278.69 48	0.4905	3.0052	21,186.49 10
Worker	6.2418	3.4066	49.7643	0.1485	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		15,835.89 05	15,835.89 05	0.4046	0.4178	15,970.52 13
Total	7.4179	53.0841	64.6182	0.3373	28.0027	0.3428	28.3455	7.5770	0.3248	7.9018		36,114.58 53	36,114.58 53	0.8951	3.4230	37,157.01 23

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1762	49.6775	14.8539	0.1888	6.6119	0.2578	6.8696	1.9028	0.2466	2.1494		20,278.69 48	20,278.69 48	0.4905	3.0052	21,186.49 10
Worker	6.2418	3.4066	49.7643	0.1485	21.3909	0.0850	21.4758	5.6741	0.0782	5.7523		15,835.89 05	15,835.89 05	0.4046	0.4178	15,970.52 13
Total	7.4179	53.0841	64.6182	0.3373	28.0027	0.3428	28.3455	7.5770	0.3248	7.9018		36,114.58 53	36,114.58 53	0.8951	3.4230	37,157.01 23

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1408	48.9305	14.6621	0.1850	6.6113	0.2524	6.8637	1.9026	0.2414	2.1441		19,881.76 91	19,881.76 91	0.4815	2.9504	20,773.02 87
Worker	5.8996	3.1625	47.6856	0.1447	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		15,537.13 98	15,537.13 98	0.3747	0.4012	15,666.06 83
Total	7.0405	52.0930	62.3477	0.3297	28.0022	0.3320	28.3342	7.5768	0.3147	7.8915		35,418.90 89	35,418.90 89	0.8561	3.3516	36,439.09 70

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1408	48.9305	14.6621	0.1850	6.6113	0.2524	6.8637	1.9026	0.2414	2.1441		19,881.76 91	19,881.76 91	0.4815	2.9504	20,773.02 87
Worker	5.8996	3.1625	47.6856	0.1447	21.3909	0.0796	21.4705	5.6741	0.0733	5.7474		15,537.13 98	15,537.13 98	0.3747	0.4012	15,666.06 83
Total	7.0405	52.0930	62.3477	0.3297	28.0022	0.3320	28.3342	7.5768	0.3147	7.8915		35,418.90 89	35,418.90 89	0.8561	3.3516	36,439.09 70

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076
Total	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076
Total	1.4757	0.8918	11.6585	0.0325	4.2751	0.0201	4.2952	1.1340	0.0185	1.1525		3,385.6238	3,385.6238	0.1045	0.0979	3,417.4076

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7
Total	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7
Total	1.3938	0.8083	10.9935	0.0315	4.2751	0.0191	4.2943	1.1340	0.0176	1.1516		3,305.383 5	3,305.383 5	0.0955	0.0922	3,335.250 7

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6
Total	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6
Total	1.3176	0.7384	10.4231	0.0305	4.2751	0.0181	4.2932	1.1340	0.0167	1.1507		3,231.314 4	3,231.314 4	0.0876	0.0875	3,259.567 6

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5
Total	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5
Total	1.2475	0.6808	9.9458	0.0297	4.2751	0.0170	4.2921	1.1340	0.0156	1.1497		3,164.925 5	3,164.925 5	0.0809	0.0835	3,191.832 5

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	49.0554	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852
Total	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.8845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	48.9143	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852
Total	1.1791	0.6320	9.5303	0.0289	4.2751	0.0159	4.2910	1.1340	0.0146	1.1487		3,105.2178	3,105.2178	0.0749	0.0802	3,130.9852

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515
Unmitigated	21.1116	19.0334	155.1707	0.1712	19.5314	0.1573	19.6887	5.2046	0.1464	5.3510		18,349.1252	18,349.1252	2.6067	1.5354	18,871.8515

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	282,840	282,840
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	790,323	790,323
Hotel	878.40	878.40	878.40	419,565	419,565
Industrial Park	10,096.73	10,096.73	10096.73	7,777,116	7,777,116
Parking Lot	0.00	0.00	0.00		
Total	16,494.09	16,494.09	16,494.09	9,269,844	9,269,844

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.10	1.55	2.01	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.10	1.55	2.01	2.20	78.80	19.00	29	21	50
Hotel	3.10	1.55	2.01	19.40	61.60	19.00	58	38	4
Industrial Park	3.10	1.55	2.01	59.00	28.00	13.00	79	19	2
Parking Lot	3.10	1.55	2.01	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Fast Food Restaurant with Drive Thru	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Hotel	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Industrial Park	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726
Parking Lot	0.559155	0.056213	0.182114	0.122460	0.021656	0.005510	0.013397	0.009527	0.000825	0.000639	0.024908	0.000870	0.002726

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969
NaturalGas Unmitigated	2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4169	22,877.5969

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	0.00768991	8.0000e-005	7.5000e-004	6.3000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9047	0.9047	2.0000e-005	2.0000e-005	0.9101
Industrial Park	185.081	1.9960	18.1452	15.2419	0.1089		1.3790	1.3790		1.3790	1.3790		21,774.1853	21,774.1853	0.4173	0.3992	21,903.5784
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0847	18.9520	15.9197	0.1137		1.4404	1.4404		1.4404	1.4404		22,742.4499	22,742.4499	0.4359	0.4170	22,877.5969

6.0 Area Detail

6.1 Mitigation Measures Area

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Unmitigated	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	112.4286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0847	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055
Total	125.9063	8.3400e-003	0.9199	7.0000e-005		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		1.9769	1.9769	5.1400e-003		2.1055

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	95	12.00	300	89	0.20	Diesel

ASIP - No Future Development Included_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522
Total	12.3817	116.6418	161.5596	0.2178		6.2442	6.2442		5.7447	5.7447	0.0000	21,094.3933	21,094.3933	6.8224		21,264.9522

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.55	0.00	0.00	0.68	0.69	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.11	0.16	-0.02	0.00	0.55	0.55	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.68	0.56	-0.16	0.00	0.83	0.82	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.24	0.86	-0.18	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.81	0.93	-0.14	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Final	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Final	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Final	2	2	No Change	0.00
Forklifts	Diesel	Tier 4 Final	3	3	No Change	0.00
Generator Sets	Diesel	Tier 4 Final	1	1	No Change	0.00
Graders	Diesel	Tier 4 Final	1	1	No Change	0.00
Pavers	Diesel	Tier 4 Final	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 4 Final	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Final	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Final	4	4	No Change	0.00
Scrapers	Diesel	Tier 4 Final	2	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	9	9	No Change	0.00
Welders	Diesel	Tier 4 Final	1	1	No Change	0.00

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	8.54300E-002	5.72750E-001	9.04570E-001	1.49000E-003	2.57500E-002	2.57500E-002	0.00000E+000	1.27663E+002	1.27663E+002	6.96000E-003	0.00000E+000	1.27837E+002
Cranes	1.36850E-001	1.38597E+000	7.59700E-001	2.53000E-003	5.89100E-002	5.42000E-002	0.00000E+000	2.21794E+002	2.21794E+002	7.17300E-002	0.00000E+000	2.23588E+002
Excavators	5.43500E-002	4.25740E-001	9.79240E-001	1.55000E-003	2.09500E-002	1.92800E-002	0.00000E+000	1.36145E+002	1.36145E+002	4.40300E-002	0.00000E+000	1.37246E+002
Forklifts	1.30330E-001	1.22781E+000	1.70063E+000	2.29000E-003	6.57300E-002	6.04700E-002	0.00000E+000	2.01437E+002	2.01437E+002	6.51500E-002	0.00000E+000	2.03066E+002
Generator Sets	1.33200E-001	1.19772E+000	1.82975E+000	3.29000E-003	4.76900E-002	4.76900E-002	0.00000E+000	2.82604E+002	2.82604E+002	1.04400E-002	0.00000E+000	2.82865E+002
Graders	5.36700E-002	6.31610E-001	2.49060E-001	9.90000E-004	2.04800E-002	1.88400E-002	0.00000E+000	8.71642E+001	8.71642E+001	2.81900E-002	0.00000E+000	8.78690E+001
Pavers	8.69000E-003	7.91500E-002	1.44790E-001	2.40000E-004	3.71000E-003	3.41000E-003	0.00000E+000	2.06382E+001	2.06382E+001	6.67000E-003	0.00000E+000	2.08050E+001
Paving Equipment	7.34000E-003	6.32400E-002	1.27320E-001	2.00000E-004	3.13000E-003	2.88000E-003	0.00000E+000	1.78859E+001	1.78859E+001	5.78000E-003	0.00000E+000	1.80306E+001
Rollers	6.85000E-003	7.21500E-002	9.23400E-002	1.30000E-004	3.63000E-003	3.34000E-003	0.00000E+000	1.15241E+001	1.15241E+001	3.73000E-003	0.00000E+000	1.16172E+001
Rubber Tired Dozers	1.55380E-001	1.60318E+000	7.02060E-001	1.92000E-003	7.22100E-002	6.64300E-002	0.00000E+000	1.68802E+002	1.68802E+002	5.45900E-002	0.00000E+000	1.70167E+002
Scrapers	2.28800E-001	2.32722E+000	1.79505E+000	4.55000E-003	9.18900E-002	8.45400E-002	0.00000E+000	3.99855E+002	3.99855E+002	1.29320E-001	0.00000E+000	4.03088E+002
Tractors/Loaders/Backhoes	2.31980E-001	2.34327E+000	3.82008E+000	5.34000E-003	9.88300E-002	9.09300E-002	0.00000E+000	4.69132E+002	4.69132E+002	1.51730E-001	0.00000E+000	4.72925E+002
Welders	1.09890E-001	6.71030E-001	8.25820E-001	1.28000E-003	2.04400E-002	2.04400E-002	0.00000E+000	9.41103E+001	9.41103E+001	8.94000E-003	0.00000E+000	9.43339E+001

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.48600E-002	6.43800E-002	9.16200E-001	1.49000E-003	1.98000E-003	1.98000E-003	0.00000E+000	1.27663E+002	1.27663E+002	6.96000E-003	0.00000E+000	1.27837E+002
Cranes	3.10100E-002	1.34400E-001	1.13719E+000	2.53000E-003	4.14000E-003	4.14000E-003	0.00000E+000	2.21794E+002	2.21794E+002	7.17300E-002	0.00000E+000	2.23587E+002
Excavators	1.90600E-002	8.26000E-002	1.17540E+000	1.55000E-003	2.54000E-003	2.54000E-003	0.00000E+000	1.36145E+002	1.36145E+002	4.40300E-002	0.00000E+000	1.37245E+002
Forklifts	2.82500E-002	1.22440E-001	1.74236E+000	2.29000E-003	3.77000E-003	3.77000E-003	0.00000E+000	2.01437E+002	2.01437E+002	6.51500E-002	0.00000E+000	2.03065E+002
Generator Sets	3.28900E-002	1.42520E-001	2.02818E+000	3.29000E-003	4.39000E-003	4.39000E-003	0.00000E+000	2.82603E+002	2.82603E+002	1.04400E-002	0.00000E+000	2.82864E+002
Graders	1.21700E-002	5.27400E-002	4.46230E-001	9.90000E-004	1.62000E-003	1.62000E-003	0.00000E+000	8.71641E+001	8.71641E+001	2.81900E-002	0.00000E+000	8.78689E+001
Pavers	2.89000E-003	1.25200E-002	1.78150E-001	2.40000E-004	3.90000E-004	3.90000E-004	0.00000E+000	2.06381E+001	2.06381E+001	6.67000E-003	0.00000E+000	2.08050E+001
Paving Equipment	2.51000E-003	1.09000E-002	1.55050E-001	2.00000E-004	3.40000E-004	3.40000E-004	0.00000E+000	1.78859E+001	1.78859E+001	5.78000E-003	0.00000E+000	1.80305E+001
Rollers	1.61000E-003	6.97000E-003	9.91900E-002	1.30000E-004	2.10000E-004	2.10000E-004	0.00000E+000	1.15240E+001	1.15240E+001	3.73000E-003	0.00000E+000	1.16172E+001
Rubber Tired Dozers	2.35200E-002	1.01940E-001	8.62550E-001	1.92000E-003	3.14000E-003	3.14000E-003	0.00000E+000	1.68802E+002	1.68802E+002	5.45900E-002	0.00000E+000	1.70167E+002
Scrapers	5.59200E-002	2.42340E-001	2.05057E+000	4.55000E-003	7.46000E-003	7.46000E-003	0.00000E+000	3.99854E+002	3.99854E+002	1.29320E-001	0.00000E+000	4.03087E+002
Tractors/Loaders/Balckhoes	6.50400E-002	2.81840E-001	4.01079E+000	5.34000E-003	8.67000E-003	8.67000E-003	0.00000E+000	4.69132E+002	4.69132E+002	1.51730E-001	0.00000E+000	4.72925E+002
Welders	2.19100E-002	5.01990E-001	7.48420E-001	1.28000E-003	1.46000E-003	1.46000E-003	0.00000E+000	9.41102E+001	9.41102E+001	8.94000E-003	0.00000E+000	9.43338E+001

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.26056E-001	8.87595E-001	-1.28569E-002	0.00000E+000	9.23107E-001	9.23107E-001	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.17337E-006
Cranes	7.73402E-001	9.03028E-001	-4.96894E-001	0.00000E+000	9.29723E-001	9.23616E-001	0.00000E+000	1.17226E-006	1.17226E-006	0.00000E+000	0.00000E+000	1.16285E-006
Excavators	6.49310E-001	8.05985E-001	-2.00319E-001	0.00000E+000	8.78759E-001	8.68257E-001	0.00000E+000	1.17522E-006	1.17522E-006	0.00000E+000	0.00000E+000	1.23865E-006
Forklifts	7.83243E-001	9.00278E-001	-2.45380E-002	0.00000E+000	9.42644E-001	9.37655E-001	0.00000E+000	1.19144E-006	1.19144E-006	0.00000E+000	0.00000E+000	1.23113E-006
Generator Sets	7.53078E-001	8.81007E-001	-1.08447E-001	0.00000E+000	9.07947E-001	9.07947E-001	0.00000E+000	1.20310E-006	1.20310E-006	0.00000E+000	0.00000E+000	1.20199E-006
Graders	7.73244E-001	9.16499E-001	-7.91657E-001	0.00000E+000	9.20898E-001	9.14013E-001	0.00000E+000	1.26199E-006	1.26199E-006	0.00000E+000	0.00000E+000	1.13806E-006
Pavers	6.67434E-001	8.41819E-001	-2.30403E-001	0.00000E+000	8.94879E-001	8.85630E-001	0.00000E+000	1.45362E-006	1.45362E-006	0.00000E+000	0.00000E+000	1.44196E-006
Paving Equipment	6.58038E-001	8.27641E-001	-2.17798E-001	0.00000E+000	8.91374E-001	8.81944E-001	0.00000E+000	1.67730E-006	1.67730E-006	0.00000E+000	0.00000E+000	1.10923E-006
Rollers	7.64964E-001	9.03396E-001	-7.41824E-002	0.00000E+000	9.42149E-001	9.37126E-001	0.00000E+000	1.73550E-006	1.73550E-006	0.00000E+000	0.00000E+000	8.60790E-007
Rubber Tired Dozers	8.48629E-001	9.36414E-001	-2.28599E-001	0.00000E+000	9.56516E-001	9.52732E-001	0.00000E+000	1.18482E-006	1.18482E-006	0.00000E+000	0.00000E+000	1.23408E-006
Scrapers	7.55594E-001	8.95867E-001	-1.42347E-001	0.00000E+000	9.18816E-001	9.11758E-001	0.00000E+000	1.17543E-006	1.17543E-006	0.00000E+000	0.00000E+000	1.19081E-006
Tractors/Loaders/Balckhoes	7.19631E-001	8.79724E-001	-4.99230E-002	0.00000E+000	9.12274E-001	9.04652E-001	0.00000E+000	1.19369E-006	1.19369E-006	0.00000E+000	0.00000E+000	1.18412E-006
Welders	8.00619E-001	2.51911E-001	9.37250E-002	0.00000E+000	9.28571E-001	9.28571E-001	0.00000E+000	1.16884E-006	1.16884E-006	0.00000E+000	0.00000E+000	1.16607E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
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ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	2.06	0.55	2.06	0.55	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	13.54	3.67	13.54	3.67	0.00	0.00
Grading	Fugitive Dust	2.43	0.67	2.43	0.67	0.00	0.00
Grading	Roads	0.34	0.09	0.34	0.09	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.49	0.25	0.49	0.25	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.03	0.20		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

ASIP - No Future Development Included_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.
- Construction Off-road Equipment Mitigation - Required with implementation of MM 4.3-1 of EIR.

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	440.00	1,800.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	240.00	90.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1166	1.1849	0.8026	1.6900e-003	0.8541	0.0545	0.9086	0.4363	0.0501	0.4864	0.0000	148.3983	148.3983	0.0467	1.3000e-004	149.6037
2024	0.4511	5.6438	3.9609	0.0138	1.9477	0.1852	2.1329	0.5994	0.1708	0.7702	0.0000	1,278.1858	1,278.1858	0.2520	0.0881	1,310.7479
2025	0.4085	5.0370	3.7848	0.0138	1.8507	0.1580	2.0087	0.5772	0.1457	0.7230	0.0000	1,273.8120	1,273.8120	0.2523	0.0873	1,306.1262
2026	3.5099	6.8058	9.5165	0.0400	3.8050	0.1097	3.9147	0.9043	0.1030	1.0073	0.0000	3,814.9161	3,814.9161	0.1770	0.3082	3,911.1960
2027	6.1411	10.2743	14.4108	0.0645	4.9720	0.1346	5.1067	1.3460	0.1274	1.4734	0.0000	6,201.5214	6,201.5214	0.2146	0.5124	6,359.5756
2028	6.0469	10.0595	13.8708	0.0628	4.9529	0.1322	5.0851	1.3408	0.1251	1.4659	0.0000	6,057.6880	6,057.6880	0.2069	0.4989	6,211.5341
2029	6.0014	9.9385	13.5023	0.0617	4.9719	0.1308	5.1027	1.3459	0.1238	1.4697	0.0000	5,970.3706	5,970.3706	0.2017	0.4903	6,121.5054
2030	5.9232	9.1655	13.1563	0.0610	4.9718	0.0754	5.0472	1.3459	0.0726	1.4185	0.0000	5,911.1760	5,911.1760	0.1385	0.4808	6,057.9023
2031	5.8608	9.0421	12.8510	0.0600	4.9717	0.0738	5.0455	1.3459	0.0711	1.4170	0.0000	5,822.4350	5,822.4350	0.1336	0.4724	5,966.5467
2032	5.8260	8.9718	12.6404	0.0592	4.9907	0.0726	5.0633	1.3510	0.0700	1.4210	0.0000	5,766.5261	5,766.5261	0.1298	0.4669	5,908.9209
2033	2.0321	2.8555	4.0409	0.0189	1.6253	0.0230	1.6483	0.4399	0.0222	0.4621	0.0000	1,844.6678	1,844.6678	0.0408	0.1481	1,889.8085
Maximum	6.1411	10.2743	14.4108	0.0645	4.9907	0.1852	5.1067	1.3510	0.1708	1.4734	0.0000	6,201.5214	6,201.5214	0.2523	0.5124	6,359.5756

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	0.9839	0.0836
2	12-1-2023	2-29-2024	1.3182	0.3417
3	3-1-2024	5-31-2024	1.5267	0.4906
4	6-1-2024	8-31-2024	1.5175	0.4814
5	9-1-2024	11-30-2024	1.5191	0.4942
6	12-1-2024	2-28-2025	1.4045	0.4911
7	3-1-2025	5-31-2025	1.3608	0.4808
8	6-1-2025	8-31-2025	1.3519	0.4719
9	9-1-2025	11-30-2025	1.3548	0.4844
10	12-1-2025	2-28-2026	1.0085	0.3489
11	3-1-2026	5-31-2026	0.3456	0.0827
12	6-1-2026	8-31-2026	3.7873	3.3909
13	9-1-2026	11-30-2026	4.1927	3.7886
14	12-1-2026	2-28-2027	4.1425	3.7429
15	3-1-2027	5-31-2027	4.1190	3.7106
16	6-1-2027	8-31-2027	4.0736	3.6651
17	9-1-2027	11-30-2027	4.1188	3.7147
18	12-1-2027	2-29-2028	4.1207	3.7166
19	3-1-2028	5-31-2028	4.0560	3.6475
20	6-1-2028	8-31-2028	4.0112	3.6027
21	9-1-2028	11-30-2028	4.0557	3.6516
22	12-1-2028	2-28-2029	4.0157	3.6161
23	3-1-2029	5-31-2029	3.9974	3.5889
24	6-1-2029	8-31-2029	3.9532	3.5447
25	9-1-2029	11-30-2029	3.9972	3.5932
26	12-1-2029	2-28-2030	3.8570	3.5612
27	3-1-2030	5-31-2030	3.7820	3.5353
28	6-1-2030	8-31-2030	3.7381	3.4914

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

29	9-1-2030	11-30-2030	3.7838	3.5398
30	12-1-2030	2-28-2031	3.7532	3.5118
31	3-1-2031	5-31-2031	3.7341	3.4874
32	6-1-2031	8-31-2031	3.6905	3.4437
33	9-1-2031	11-30-2031	3.7362	3.4922
34	12-1-2031	2-29-2032	3.7511	3.5071
35	3-1-2032	5-31-2032	3.6922	3.4455
36	6-1-2032	8-31-2032	3.6486	3.4019
37	9-1-2032	11-30-2032	3.6948	3.4507
38	12-1-2032	2-28-2033	3.6733	3.4319
39	3-1-2033	5-31-2033	2.5485	2.3862
		Highest	4.1927	3.7886

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7936	1,787.5065	1.9861	1.1963	2,193.6541
Total	36.9362	21.8312	68.6650	0.1285	6.2289	0.5576	6.7865	1.6640	0.5551	2.2191	2,259.9406	30,760.5798	33,020.5204	105.5661	1.7711	36,187.4653

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7031	1,787.4160	1.9861	1.1963	2,193.5632
Total	36.9362	21.8312	68.6650	0.1285	6.2289	0.5576	6.7865	1.6640	0.5551	2.2191	2,259.9406	30,760.4894	33,020.4300	105.5661	1.7711	36,187.3744

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/30/2026	6/4/2026	5	90
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800
5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800

Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.0868	0.8974	1.6400e-003		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008
Total	0.0200	0.0868	0.8974	1.6400e-003	0.8484	2.6700e-003	0.8511	0.4348	2.6700e-003	0.4374	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	4.0300e-003	0.0417	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	9.3000e-004	4.0300e-003	0.0417	8.0000e-005	0.1077	1.2000e-004	0.1078	0.0276	1.2000e-004	0.0277	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0982	0.4257	4.2569	8.0100e-003		0.0131	0.0131		0.0131	0.0131	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876
Total	0.0982	0.4257	4.2569	8.0100e-003	1.6673	0.0131	1.6804	0.5245	0.0131	0.5376	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	0.3786	3.6466	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0994	0.4307	4.3064	8.1000e-003		0.0133	0.0133		0.0133	0.0133	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	0.0994	0.4307	4.3064	8.1000e-003	1.6763	0.0133	1.6896	0.5295	0.0133	0.5428	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-003	0.0347	0.3465	6.5000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942
Total	8.0000e-003	0.0347	0.3465	6.5000e-004	0.9537	1.0700e-003	0.9547	0.1323	1.0700e-003	0.1333	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.0547	0.7783	1.0300e-003		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0559	0.0547	0.7783	1.0300e-003		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0246	0.1676	1.3095	2.0200e-003		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616
Total	0.0246	0.1676	1.3095	2.0200e-003		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	4.0400e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.0428	0.2916	2.2786	4.0400e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.2916	2.2786	4.0400e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.0428	0.2916	2.2786	4.0400e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0429	0.2928	2.2873	4.0600e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.0429	0.2928	2.2873	4.0600e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.0939	0.7333	1.3000e-003		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122
Total	0.0138	0.0939	0.7333	1.3000e-003		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0800e-003	9.0100e-003	0.1283	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971
Total	2.4360	9.0100e-003	0.1283	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5414	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	4.5240	0.0167	0.2382	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5414	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5414	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5414	0.0168	0.2391	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0169	0.2401	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
Total	4.5588	0.0169	0.2401	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	6.0500e-003	0.0861	1.4000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6356	6.0500e-003	0.0861	1.4000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Unmitigated	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
NaturalGas Mitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988
NaturalGas Unmitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Unmitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,787,416 0	1.9861	1.1963	2,193.563 2
Unmitigated	1,787,506 5	1.9861	1.1963	2,193.654 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1528.4 / 0	1,777.317 8	1.9752	1.1898	2,181.250 1
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.506 4	1.9861	1.1963	2,193.654 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1528.4 / 0	1,777.3178	1.9752	1.1898	2,181.2501
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.4160	1.9861	1.1963	2,193.5632

8.0 Waste Detail

8.1 Mitigation Measures Waste

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,716.227 7	101.4262	0.0000	4,251.881 5
Unmitigated	1,716.227 7	101.4262	0.0000	4,251.881 5

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.618 5	98.3170	0.0000	4,121.544 5
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.227 7	101.4262	0.0000	4,251.881 5

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.6185	98.3170	0.0000	4,121.5445
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.2277	101.4262	0.0000	4,251.8815

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Total	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Based on project-specific information provided by DKS.
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.
- Construction Off-road Equipment Mitigation - Required with implementation of MM 4.3-1 of EIR.

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	440.00	1,800.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	240.00	90.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	3.1500e-003	3,846.2531
2024	3.4677	42.7160	30.4696	0.1067	19.7939	1.4167	21.0240	10.1388	1.3063	11.2704	0.0000	10,874.0947	10,874.0947	2.1351	0.7526	11,151.7376
2025	3.1428	38.0013	29.0525	0.1057	10.6987	1.2106	11.9093	4.0476	1.1167	5.1642	0.0000	10,770.1765	10,770.1765	2.1313	0.7367	11,043.0070
2026	49.3820	76.8174	127.2961	0.5292	39.4114	1.2086	40.4571	10.6362	1.1148	11.6252	0.0000	55,846.1888	55,846.1888	2.1276	4.3946	57,201.9030
2027	48.6885	75.2903	122.0568	0.5162	39.4106	1.0305	40.4412	10.6359	0.9748	11.6107	0.0000	54,677.9901	54,677.9901	1.7780	4.2898	56,000.7946
2028	48.0588	74.0217	117.7096	0.5043	39.4099	1.0158	40.4257	10.6357	0.9610	11.5967	0.0000	53,609.4171	53,609.4171	1.7221	4.1939	54,902.2466
2029	47.4457	72.8700	113.9636	0.4935	39.4093	1.0016	40.4109	10.6354	0.9477	11.5832	0.0000	52,630.5912	52,630.5912	1.6725	4.1061	53,896.0047
2030	46.7591	67.0102	110.8812	0.4876	39.4087	0.5773	39.9860	10.6352	0.5556	11.1908	0.0000	52,092.0312	52,092.0312	1.1407	4.0271	53,320.6109
2031	46.1993	66.1193	108.1754	0.4789	39.4082	0.5647	39.9730	10.6350	0.5438	11.1789	0.0000	51,308.7579	51,308.7579	1.1009	3.9574	52,515.5946
2032	45.6826	65.3627	105.8845	0.4712	39.4079	0.5536	39.9614	10.6349	0.5334	11.1683	0.0000	50,621.4119	50,621.4119	1.0660	3.8972	51,809.4338
2033	45.2376	64.7315	103.9491	0.4645	39.4075	0.5437	39.9512	10.6348	0.5241	11.1589	0.0000	50,016.6804	50,016.6804	1.0359	3.8449	51,188.3731
Maximum	49.3820	76.8174	127.2961	0.5292	39.4114	1.4167	40.4571	10.6362	1.3063	11.6252	0.0000	55,846.1888	55,846.1888	2.1351	4.3946	57,201.9030

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	214.4858	133.9316	415.4255	0.7849	35.4391	3.2702	38.7092	9.4406	3.2566	12.6972	0.0000	94,222.5429	94,222.5429	4.5668	2.3739	95,044.1490

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	214.4858	133.9316	415.4255	0.7849	35.4391	3.2702	38.7092	9.4406	3.2566	12.6972	0.0000	94,222.5429	94,222.5429	4.5668	2.3739	95,044.1490

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	
3	Paving	Paving	1/30/2026	6/4/2026	5	90	
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800	

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800
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Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		124.8755	124.8755	3.1800e-003	2.9300e-003	125.8270

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000		6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1866	10.3102	2.2408	0.0433	1.2268	0.0806	1.3074	0.3359	0.0771	0.4130		4,725.5954	4,725.5954	0.1879	0.7493	4,953.5892
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.2496	10.3390	2.7468	0.0446	1.3790	0.0813	1.4603	0.3763	0.0778	0.4540		4,864.3460	4,864.3460	0.1914	0.7526	5,093.3970

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1866	10.3102	2.2408	0.0433	1.2268	0.0806	1.3074	0.3359	0.0771	0.4130		4,725.5954	4,725.5954	0.1879	0.7493	4,953.5892
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		138.7506	138.7506	3.5300e-003	3.2500e-003	139.8078
Total	0.2496	10.3390	2.7468	0.0446	1.3790	0.0813	1.4603	0.3763	0.0778	0.4540		4,864.3460	4,864.3460	0.1914	0.7526	5,093.3970

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1824	10.0325	2.2491	0.0424	1.2265	0.0790	1.3055	0.3358	0.0756	0.4114		4,626.531 2	4,626.531 2	0.1849	0.7337	4,849.795 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.2415	10.0584	2.7214	0.0437	1.3787	0.0797	1.4584	0.3762	0.0762	0.4524		4,761.895 1	4,761.895 1	0.1881	0.7367	4,986.145 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1824	10.0325	2.2491	0.0424	1.2265	0.0790	1.3055	0.3358	0.0756	0.4114		4,626.531 2	4,626.531 2	0.1849	0.7337	4,849.795 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0259	0.4723	1.3000e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		135.3639	135.3639	3.1900e-003	3.0400e-003	136.3499
Total	0.2415	10.0584	2.7214	0.0437	1.3787	0.0797	1.4584	0.3762	0.0762	0.4524		4,761.895 1	4,761.895 1	0.1881	0.7367	4,986.145 5

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1780	9.7592	2.2524	0.0414	1.2263	0.0771	1.3033	0.3357	0.0737	0.4095		4,529.067 2	4,529.067 2	0.1815	0.7183	4,747.656 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
Total	0.2337	9.7826	2.6965	0.0427	1.3784	0.0777	1.4562	0.3761	0.0744	0.4504		4,661.193 0	4,661.193 0	0.1844	0.7212	4,880.709 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1780	9.7592	2.2524	0.0414	1.2263	0.0771	1.3033	0.3357	0.0737	0.4095		4,529.067 2	4,529.067 2	0.1815	0.7183	4,747.656 8
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0557	0.0235	0.4441	1.2600e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		132.1259	132.1259	2.9100e-003	2.8700e-003	133.0526
Total	0.2337	9.7826	2.6965	0.0427	1.3784	0.0777	1.4562	0.3761	0.0744	0.4504		4,661.193 0	4,661.193 0	0.1844	0.7212	4,880.709 4

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
Total	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2420	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895
Total	0.0418	0.0176	0.3331	9.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		99.0944	99.0944	2.1800e-003	2.1500e-003	99.7895

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5959	58.3650	17.9107	0.2402	8.0706	0.3264	8.3969	2.3227	0.3122	2.6349		25,790.33 74	25,790.33 74	0.6300	3.8042	26,939.73 67
Worker	9.5636	4.0307	76.2356	0.2159	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		22,679.40 54	22,679.40 54	0.4991	0.4919	22,838.47 95
Total	11.1595	62.3956	94.1463	0.4561	34.1854	0.4432	34.6286	9.2499	0.4198	9.6697		48,469.74 28	48,469.74 28	1.1290	4.2961	49,778.21 62

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5959	58.3650	17.9107	0.2402	8.0706	0.3264	8.3969	2.3227	0.3122	2.6349		25,790.33 74	25,790.33 74	0.6300	3.8042	26,939.73 67
Worker	9.5636	4.0307	76.2356	0.2159	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		22,679.40 54	22,679.40 54	0.4991	0.4919	22,838.47 95
Total	11.1595	62.3956	94.1463	0.4561	34.1854	0.4432	34.6286	9.2499	0.4198	9.6697		48,469.74 28	48,469.74 28	1.1290	4.2961	49,778.21 62

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5447	57.2539	17.6041	0.2350	8.0698	0.3189	8.3887	2.3225	0.3051	2.6275		25,236.37 42	25,236.37 42	0.6139	3.7296	26,363.15 31
Worker	9.0285	3.6840	72.1254	0.2094	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		22,167.59 22	22,167.59 22	0.4564	0.4667	22,318.09 26
Total	10.5731	60.9379	89.7295	0.4444	34.1846	0.4294	34.6140	9.2496	0.4067	9.6564		47,403.96 64	47,403.96 64	1.0703	4.1964	48,681.24 57

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5447	57.2539	17.6041	0.2350	8.0698	0.3189	8.3887	2.3225	0.3051	2.6275		25,236.37 42	25,236.37 42	0.6139	3.7296	26,363.15 31
Worker	9.0285	3.6840	72.1254	0.2094	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		22,167.59 22	22,167.59 22	0.4564	0.4667	22,318.09 26
Total	10.5731	60.9379	89.7295	0.4444	34.1846	0.4294	34.6140	9.2496	0.4067	9.6564		47,403.96 64	47,403.96 64	1.0703	4.1964	48,681.24 57

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4996	56.3283	17.3594	0.2301	8.0691	0.3123	8.3814	2.3222	0.2987	2.6209		24,717.25 59	24,717.25 59	0.6019	3.6588	25,822.63 67
Worker	8.5413	3.3982	68.7070	0.2036	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		21,709.75 77	21,709.75 77	0.4199	0.4458	21,853.11 14
Total	10.0409	59.7265	86.0664	0.4337	34.1839	0.4160	34.5999	9.2494	0.3942	9.6436		46,427.01 36	46,427.01 36	1.0217	4.1047	47,675.74 81

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4996	56.3283	17.3594	0.2301	8.0691	0.3123	8.3814	2.3222	0.2987	2.6209		24,717.25 59	24,717.25 59	0.6019	3.6588	25,822.63 67
Worker	8.5413	3.3982	68.7070	0.2036	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		21,709.75 77	21,709.75 77	0.4199	0.4458	21,853.11 14
Total	10.0409	59.7265	86.0664	0.4337	34.1839	0.4160	34.5999	9.2494	0.3942	9.6436		46,427.01 36	46,427.01 36	1.0217	4.1047	47,675.74 81

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4578	55.4668	17.1474	0.2255	8.0685	0.3059	8.3744	2.3220	0.2926	2.6146		24,231.45 78	24,231.45 78	0.5909	3.5921	25,316.67 79
Worker	8.0652	3.1564	65.7623	0.1983	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		21,298.94 11	21,298.94 11	0.3877	0.4282	21,436.24 93
Total	9.5230	58.6232	82.9097	0.4238	34.1833	0.4031	34.5864	9.2492	0.3821	9.6312		45,530.39 89	45,530.39 89	0.9786	4.0204	46,752.92 72

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4578	55.4668	17.1474	0.2255	8.0685	0.3059	8.3744	2.3220	0.2926	2.6146		24,231.45 78	24,231.45 78	0.5909	3.5921	25,316.67 79
Worker	8.0652	3.1564	65.7623	0.1983	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		21,298.94 11	21,298.94 11	0.3877	0.4282	21,436.24 93
Total	9.5230	58.6232	82.9097	0.4238	34.1833	0.4031	34.5864	9.2492	0.3821	9.6312		45,530.39 89	45,530.39 89	0.9786	4.0204	46,752.92 72

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4201	54.6752	16.9805	0.2213	8.0679	0.2996	8.3675	2.3218	0.2866	2.6084		23,785.17 43	23,785.17 43	0.5818	3.5307	24,851.87 29
Worker	7.6065	2.9532	63.2822	0.1936	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		20,937.85 21	20,937.85 21	0.3593	0.4136	21,070.08 11
Total	9.0266	57.6284	80.2627	0.4150	34.1827	0.3906	34.5733	9.2490	0.3703	9.6193		44,723.02 64	44,723.02 64	0.9411	3.9443	45,921.95 40

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4201	54.6752	16.9805	0.2213	8.0679	0.2996	8.3675	2.3218	0.2866	2.6084		23,785.17 43	23,785.17 43	0.5818	3.5307	24,851.87 29
Worker	7.6065	2.9532	63.2822	0.1936	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		20,937.85 21	20,937.85 21	0.3593	0.4136	21,070.08 11
Total	9.0266	57.6284	80.2627	0.4150	34.1827	0.3906	34.5733	9.2490	0.3703	9.6193		44,723.02 64	44,723.02 64	0.9411	3.9443	45,921.95 40

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3881	53.9935	16.8655	0.2176	8.0674	0.2940	8.3615	2.3216	0.2813	2.6029		23,386.41 17	23,386.41 17	0.5723	3.4759	24,436.54 56
Worker	7.1668	2.7788	61.1234	0.1895	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		20,617.45 76	20,617.45 76	0.3341	0.4012	20,745.37 18
Total	8.5548	56.7723	77.9889	0.4071	34.1822	0.3792	34.5615	9.2488	0.3597	9.6085		44,003.86 93	44,003.86 93	0.9064	3.8772	45,181.91 74

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3881	53.9935	16.8655	0.2176	8.0674	0.2940	8.3615	2.3216	0.2813	2.6029		23,386.41 17	23,386.41 17	0.5723	3.4759	24,436.54 56
Worker	7.1668	2.7788	61.1234	0.1895	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		20,617.45 76	20,617.45 76	0.3341	0.4012	20,745.37 18
Total	8.5548	56.7723	77.9889	0.4071	34.1822	0.3792	34.5615	9.2488	0.3597	9.6085		44,003.86 93	44,003.86 93	0.9064	3.8772	45,181.91 74

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3610	53.4089	16.7924	0.2143	8.0670	0.2893	8.3563	2.3215	0.2767	2.5982		23,035.77 79	23,035.77 79	0.5642	3.4279	24,071.38 03
Worker	6.7587	2.6355	59.2754	0.1858	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		20,336.89 14	20,336.89 14	0.3119	0.3911	20,461.23 65
Total	8.1198	56.0444	76.0678	0.4001	34.1819	0.3691	34.5510	9.2487	0.3502	9.5989		43,372.66 92	43,372.66 92	0.8760	3.8190	44,532.61 68

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3610	53.4089	16.7924	0.2143	8.0670	0.2893	8.3563	2.3215	0.2767	2.5982		23,035.77 79	23,035.77 79	0.5642	3.4279	24,071.38 03
Worker	6.7587	2.6355	59.2754	0.1858	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		20,336.89 14	20,336.89 14	0.3119	0.3911	20,461.23 65
Total	8.1198	56.0444	76.0678	0.4001	34.1819	0.3691	34.5510	9.2487	0.3502	9.5989		43,372.66 92	43,372.66 92	0.8760	3.8190	44,532.61 68

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3384	52.9155	16.7441	0.2115	8.0667	0.2852	8.3519	2.3213	0.2728	2.5942		22,725.65 01	22,725.65 01	0.5572	3.3854	23,748.41 99
Worker	6.4068	2.5206	57.7029	0.1826	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		20,091.41 21	20,091.41 21	0.2926	0.3829	20,212.84 37
Total	7.7452	55.4361	74.4470	0.3940	34.1815	0.3602	34.5417	9.2485	0.3419	9.5904		42,817.06 22	42,817.06 22	0.8498	3.7683	43,961.26 35

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3384	52.9155	16.7441	0.2115	8.0667	0.2852	8.3519	2.3213	0.2728	2.5942		22,725.65 01	22,725.65 01	0.5572	3.3854	23,748.41 99
Worker	6.4068	2.5206	57.7029	0.1826	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		20,091.41 21	20,091.41 21	0.2926	0.3829	20,212.84 37
Total	7.7452	55.4361	74.4470	0.3940	34.1815	0.3602	34.5417	9.2485	0.3419	9.5904		42,817.06 22	42,817.06 22	0.8498	3.7683	43,961.26 35

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569
Total	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569
Total	1.9138	0.8066	15.2560	0.0432	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,538.5236	4,538.5236	0.0999	0.0985	4,570.3569

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190
Total	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190
Total	1.8067	0.7372	14.4335	0.0419	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		4,436.1013	4,436.1013	0.0913	0.0934	4,466.2190

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5
Total	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5
Total	1.7093	0.6800	13.7494	0.0407	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		4,344.481 1	4,344.481 1	0.0840	0.0892	4,373.168 5

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.2699	4,262.2699	0.0776	0.0857	4,289.7475
Total	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.2699	4,262.2699	0.0776	0.0857	4,289.7475

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.269 9	4,262.269 9	0.0776	0.0857	4,289.747 5
Total	1.6140	0.6316	13.1601	0.0397	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		4,262.269 9	4,262.269 9	0.0776	0.0857	4,289.747 5

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2
Total	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2
Total	1.5222	0.5910	12.6638	0.0388	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		4,190.010 0	4,190.010 0	0.0719	0.0828	4,216.471 2

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915
Total	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915
Total	1.4342	0.5561	12.2318	0.0379	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		4,125.8938	4,125.8938	0.0669	0.0803	4,151.4915

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4
Total	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4
Total	1.3525	0.5274	11.8620	0.0372	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		4,069.747 9	4,069.747 9	0.0624	0.0783	4,094.631 4

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9
Total	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9
Total	1.2821	0.5044	11.5473	0.0365	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		4,020.623 4	4,020.623 4	0.0586	0.0766	4,044.923 9

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673
Unmitigated	34.3497	20.7155	177.2324	0.2954	35.4391	0.2000	35.6391	9.4406	0.1864	9.6270		32,315.1644	32,315.1644	2.5706	1.8327	32,925.5673

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
NaturalGas Unmitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7689.91	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235.038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Unmitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage and lot acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per applicant-provided questionnaire.

Grading - Based on applicant provided AQ questionnaire.

Vehicle Trips - Based on project-specific information provided by DKS.

Water Mitigation - Compliant with MWELO.

Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

Construction Off-road Equipment Mitigation - Required with implementation of MM 4.3-1 of EIR.

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	440.00	1,800.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	240.00	90.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94
tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
2024	3.4515	43.5621	30.4463	0.1066	19.7939	1.4170	21.0240	10.1388	1.3066	11.2704	0.0000	10,861.71 38	10,861.71 38	2.1352	0.7535	11,139.64 80
2025	3.1271	38.8259	29.0339	0.1056	10.6987	1.2109	11.9095	4.0476	1.1169	5.1645	0.0000	10,758.33 17	10,758.33 17	2.1314	0.7377	11,031.44 87
2026	48.0611	82.3251	117.2129	0.5011	39.4114	1.2089	40.4599	10.6362	1.1150	11.6280	0.0000	52,887.32 69	52,887.32 69	2.1276	4.4891	54,273.65 45
2027	47.4499	80.6348	112.7006	0.4890	39.4106	1.0332	40.4438	10.6359	0.9773	11.6132	0.0000	51,792.25 74	51,792.25 74	1.8694	4.3795	53,144.09 23
2028	46.8892	79.2328	108.9336	0.4779	39.4099	1.0182	40.4281	10.6357	0.9633	11.5989	0.0000	50,788.00 11	50,788.00 11	1.8078	4.2797	52,108.53 80
2029	46.3448	77.9635	105.6540	0.4677	39.4093	1.0037	40.4130	10.6354	0.9498	11.5852	0.0000	49,865.87 83	49,865.87 83	1.7528	4.1885	51,157.87 92
2030	45.7296	72.0019	102.9636	0.4625	39.4087	0.5792	39.9879	10.6352	0.5574	11.1926	0.0000	49,376.55 63	49,376.55 63	1.2160	4.1068	50,630.78 71
2031	45.2355	71.0251	100.5847	0.4544	39.4082	0.5664	39.9747	10.6350	0.5454	11.1805	0.0000	48,636.33 58	48,636.33 58	1.1717	4.0349	49,868.03 30
2032	44.7853	70.1991	98.5628	0.4472	39.4079	0.5551	39.9630	10.6349	0.5348	11.1697	0.0000	47,986.29 32	47,986.29 32	1.1327	3.9729	49,198.52 73
2033	44.3973	69.5120	96.8444	0.4408	39.4075	0.5451	39.9526	10.6348	0.5255	11.1603	0.0000	47,413.95 35	47,413.95 35	1.0989	3.9192	48,609.33 42
Maximum	48.0611	82.3251	117.2129	0.5011	39.4114	1.4170	40.4599	10.6362	1.3066	11.6280	0.0000	52,887.32 69	52,887.32 69	2.1352	4.4891	54,273.65 45

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	203.1489	137.0095	437.1332	0.7613	35.4391	3.2706	38.7097	9.4406	3.2570	12.6976	0.0000	91,612.0949	91,612.0949	5.0730	2.5557	92,500.5223

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Energy	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
Mobile	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Offroad	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	203.1489	137.0095	437.1332	0.7613	35.4391	3.2706	38.7097	9.4406	3.2570	12.6976	0.0000	91,612.0949	91,612.0949	5.0730	2.5557	92,500.5223

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	
3	Paving	Paving	1/30/2026	6/4/2026	5	90	
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800	

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800
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Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	0.4656	2.0175	20.8690	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e-003	0.1369	6.7000e-004	0.1376	0.0363	6.2000e-004	0.0369		111.1171	111.1171	3.6800e-003	3.3500e-003	112.2087

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.3200	1.3354	10.6554	3.6714	1.2286	4.9000		6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1775	11.1498	2.2807	0.0433	1.2268	0.0809	1.3077	0.3359	0.0774	0.4133		4,728.5017	4,728.5017	0.1874	0.7498	4,956.6311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.2334	11.1852	2.7235	0.0445	1.3790	0.0816	1.4606	0.3763	0.0780	0.4543		4,851.9651	4,851.9651	0.1915	0.7535	5,081.3074

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1775	11.1498	2.2807	0.0433	1.2268	0.0809	1.3077	0.3359	0.0774	0.4133		4,728.5017	4,728.5017	0.1874	0.7498	4,956.6311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e-003	0.1521	7.5000e-004	0.1529	0.0404	6.9000e-004	0.0410		123.4634	123.4634	4.0900e-003	3.7300e-003	124.6763
Total	0.2334	11.1852	2.7235	0.0445	1.3790	0.0816	1.4606	0.3763	0.0780	0.4543		4,851.9651	4,851.9651	0.1915	0.7535	5,081.3074

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1733	10.8513	2.2879	0.0424	1.2265	0.0793	1.3058	0.3358	0.0758	0.4116		4,629.5654	4,629.5654	0.1844	0.7342	4,852.9713
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.2258	10.8830	2.7028	0.0435	1.3787	0.0800	1.4586	0.3762	0.0765	0.4527		4,750.0502	4,750.0502	0.1882	0.7377	4,974.5872

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1733	10.8513	2.2879	0.0424	1.2265	0.0793	1.3058	0.3358	0.0758	0.4116		4,629.5654	4,629.5654	0.1844	0.7342	4,852.9713
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0525	0.0317	0.4149	1.1600e-003	0.1521	7.1000e-004	0.1529	0.0404	6.6000e-004	0.0410		120.4848	120.4848	3.7200e-003	3.4800e-003	121.6159
Total	0.2258	10.8830	2.7028	0.0435	1.3787	0.0800	1.4586	0.3762	0.0765	0.4527		4,750.0502	4,750.0502	0.1882	0.7377	4,974.5872

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.3200	1.1309	10.4509	3.6714	1.0404	4.7118		6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1688	10.5572	2.2903	0.0415	1.2263	0.0773	1.3036	0.3357	0.0740	0.4097		4,532.2114	4,532.2114	0.1810	0.7188	4,750.9472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
Total	0.2184	10.5860	2.6815	0.0426	1.3784	0.0780	1.4564	0.3761	0.0746	0.4507		4,649.8407	4,649.8407	0.1844	0.7221	4,869.6394

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7616	3.3000	32.9991	0.0621	9.3200	0.1015	9.4216	3.6714	0.1015	3.7729	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1688	10.5572	2.2903	0.0415	1.2263	0.0773	1.3036	0.3357	0.0740	0.4097		4,532.2114	4,532.2114	0.1810	0.7188	4,750.9472
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0288	0.3912	1.1200e-003	0.1521	6.8000e-004	0.1528	0.0404	6.3000e-004	0.0410		117.6293	117.6293	3.4000e-003	3.2800e-003	118.6922
Total	0.2184	10.5860	2.6815	0.0426	1.3784	0.0780	1.4564	0.3761	0.0746	0.4507		4,649.8407	4,649.8407	0.1844	0.7221	4,869.6394

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8767	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
Total	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2420	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192
Total	0.0372	0.0216	0.2934	8.4000e-004	0.1141	5.1000e-004	0.1146	0.0303	4.7000e-004	0.0307		88.2220	88.2220	2.5500e-003	2.4600e-003	89.0192

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5343	62.7843	18.7260	0.2404	8.0706	0.3293	8.3998	2.3227	0.3150	2.6377		25,817.76 73	25,817.76 73	0.6269	3.8131	26,969.73 24
Worker	8.5143	4.9376	67.1543	0.1922	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		20,191.07 05	20,191.07 05	0.5831	0.5633	20,373.51 53
Total	10.0486	67.7219	85.8804	0.4327	34.1854	0.4461	34.6315	9.2499	0.4225	9.6725		46,008.83 78	46,008.83 78	1.2100	4.3764	47,343.24 77

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5343	62.7843	18.7260	0.2404	8.0706	0.3293	8.3998	2.3227	0.3150	2.6377		25,817.76 73	25,817.76 73	0.6269	3.8131	26,969.73 24
Worker	8.5143	4.9376	67.1543	0.1922	26.1148	0.1168	26.2317	6.9272	0.1076	7.0348		20,191.07 05	20,191.07 05	0.5831	0.5633	20,373.51 53
Total	10.0486	67.7219	85.8804	0.4327	34.1854	0.4461	34.6315	9.2499	0.4225	9.6725		46,008.83 78	46,008.83 78	1.2100	4.3764	47,343.24 77

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4818	61.6061	18.3956	0.2352	8.0698	0.3215	8.3913	2.3225	0.3075	2.6300		25,265.69 58	25,265.69 58	0.6107	3.7384	26,394.99 99
Worker	8.0487	4.5108	63.6698	0.1865	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		19,738.61 61	19,738.61 61	0.5353	0.5342	19,911.20 21
Total	9.5305	66.1169	82.0654	0.4217	34.1846	0.4320	34.6166	9.2496	0.4092	9.6589		45,004.31 19	45,004.31 19	1.1460	4.2726	46,306.20 20

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4818	61.6061	18.3956	0.2352	8.0698	0.3215	8.3913	2.3225	0.3075	2.6300		25,265.69 58	25,265.69 58	0.6107	3.7384	26,394.99 99
Worker	8.0487	4.5108	63.6698	0.1865	26.1148	0.1105	26.2253	6.9272	0.1017	7.0289		19,738.61 61	19,738.61 61	0.5353	0.5342	19,911.20 21
Total	9.5305	66.1169	82.0654	0.4217	34.1846	0.4320	34.6166	9.2496	0.4092	9.6589		45,004.31 19	45,004.31 19	1.1460	4.2726	46,306.20 20

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4354	60.6264	18.1277	0.2304	8.0691	0.3146	8.3837	2.3222	0.3009	2.6232		24,748.13 39	24,748.13 39	0.5986	3.6675	25,856.00 91
Worker	7.6202	4.1589	60.7542	0.1813	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		19,333.07 69	19,333.07 69	0.4940	0.5101	19,497.43 94
Total	9.0556	64.7853	78.8819	0.4117	34.1839	0.4183	34.6023	9.2494	0.3964	9.6458		44,081.21 07	44,081.21 07	1.0926	4.1776	45,353.44 84

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4354	60.6264	18.1277	0.2304	8.0691	0.3146	8.3837	2.3222	0.3009	2.6232		24,748.13 39	24,748.13 39	0.5986	3.6675	25,856.00 91
Worker	7.6202	4.1589	60.7542	0.1813	26.1148	0.1037	26.2185	6.9272	0.0955	7.0227		19,333.07 69	19,333.07 69	0.4940	0.5101	19,497.43 94
Total	9.0556	64.7853	78.8819	0.4117	34.1839	0.4183	34.6023	9.2494	0.3964	9.6458		44,081.21 07	44,081.21 07	1.0926	4.1776	45,353.44 84

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3922	59.7148	17.8937	0.2258	8.0685	0.3080	8.3765	2.3220	0.2946	2.6166		24,263.72 55	24,263.72 55	0.5876	3.6007	25,351.41 93
Worker	7.2025	3.8609	58.2164	0.1766	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		18,968.35 02	18,968.35 02	0.4574	0.4898	19,125.75 13
Total	8.5948	63.5757	76.1101	0.4024	34.1833	0.4052	34.5885	9.2492	0.3841	9.6333		43,232.07 57	43,232.07 57	1.0450	4.0905	44,477.17 06

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3922	59.7148	17.8937	0.2258	8.0685	0.3080	8.3765	2.3220	0.2946	2.6166		24,263.72 55	24,263.72 55	0.5876	3.6007	25,351.41 93
Worker	7.2025	3.8609	58.2164	0.1766	26.1148	0.0972	26.2120	6.9272	0.0895	7.0167		18,968.35 02	18,968.35 02	0.4574	0.4898	19,125.75 13
Total	8.5948	63.5757	76.1101	0.4024	34.1833	0.4052	34.5885	9.2492	0.3841	9.6333		43,232.07 57	43,232.07 57	1.0450	4.0905	44,477.17 06

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3530	58.8780	17.7059	0.2217	8.0679	0.3015	8.3694	2.3218	0.2884	2.6102		23,818.79 48	23,818.79 48	0.5784	3.5393	24,887.95 98
Worker	6.8046	3.6105	56.0803	0.1725	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		18,647.16 17	18,647.16 17	0.4249	0.4729	18,798.70 94
Total	8.1576	62.4884	73.7862	0.3941	34.1827	0.3925	34.5752	9.2490	0.3722	9.6211		42,465.95 64	42,465.95 64	1.0034	4.0122	43,686.66 92

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3530	58.8780	17.7059	0.2217	8.0679	0.3015	8.3694	2.3218	0.2884	2.6102		23,818.79 48	23,818.79 48	0.5784	3.5393	24,887.95 98
Worker	6.8046	3.6105	56.0803	0.1725	26.1148	0.0910	26.2058	6.9272	0.0838	7.0110		18,647.16 17	18,647.16 17	0.4249	0.4729	18,798.70 94
Total	8.1576	62.4884	73.7862	0.3941	34.1827	0.3925	34.5752	9.2490	0.3722	9.6211		42,465.95 64	42,465.95 64	1.0034	4.0122	43,686.66 92

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3196	58.1594	17.5731	0.2179	8.0674	0.2957	8.3631	2.3216	0.2829	2.6045		23,421.27 53	23,421.27 53	0.5689	3.4845	24,473.87 81
Worker	6.4207	3.3954	54.2088	0.1687	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		18,361.60 52	18,361.60 52	0.3960	0.4586	18,508.17 72
Total	7.7403	61.5547	71.7819	0.3867	34.1822	0.3809	34.5632	9.2488	0.3613	9.6101		41,782.88 05	41,782.88 05	0.9648	3.9431	42,982.05 54

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3196	58.1594	17.5731	0.2179	8.0674	0.2957	8.3631	2.3216	0.2829	2.6045		23,421.27 53	23,421.27 53	0.5689	3.4845	24,473.87 81
Worker	6.4207	3.3954	54.2088	0.1687	26.1148	0.0852	26.2000	6.9272	0.0784	7.0056		18,361.60 52	18,361.60 52	0.3960	0.4586	18,508.17 72
Total	7.7403	61.5547	71.7819	0.3867	34.1822	0.3809	34.5632	9.2488	0.3613	9.6101		41,782.88 05	41,782.88 05	0.9648	3.9431	42,982.05 54

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2911	57.5453	17.4856	0.2147	8.0670	0.2908	8.3579	2.3215	0.2782	2.5996		23,071.76 28	23,071.76 28	0.5606	3.4365	24,109.84 26
Worker	6.0693	3.2187	52.5970	0.1655	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		18,111.18 78	18,111.18 78	0.3703	0.4470	18,253.64 35
Total	7.3604	60.7640	70.0825	0.3801	34.1819	0.3707	34.5525	9.2487	0.3517	9.6003		41,182.95 06	41,182.95 06	0.9309	3.8834	42,363.48 61

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2911	57.5453	17.4856	0.2147	8.0670	0.2908	8.3579	2.3215	0.2782	2.5996		23,071.76 28	23,071.76 28	0.5606	3.4365	24,109.84 26
Worker	6.0693	3.2187	52.5970	0.1655	26.1148	0.0799	26.1947	6.9272	0.0735	7.0007		18,111.18 78	18,111.18 78	0.3703	0.4470	18,253.64 35
Total	7.3604	60.7640	70.0825	0.3801	34.1819	0.3707	34.5525	9.2487	0.3517	9.6003		41,182.95 06	41,182.95 06	0.9309	3.8834	42,363.48 61

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2672	57.0280	17.4252	0.2118	8.0667	0.2867	8.3533	2.3213	0.2742	2.5955		22,762.64 02	22,762.64 02	0.5536	3.3940	23,787.89 84
Worker	5.7660	3.0772	51.2154	0.1626	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		17,891.86 16	17,891.86 16	0.3480	0.4376	18,030.95 77
Total	7.0332	60.1053	68.6407	0.3744	34.1815	0.3617	34.5432	9.2485	0.3432	9.5918		40,654.50 17	40,654.50 17	0.9016	3.8316	41,818.85 61

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2672	57.0280	17.4252	0.2118	8.0667	0.2867	8.3533	2.3213	0.2742	2.5955		22,762.64 02	22,762.64 02	0.5536	3.3940	23,787.89 84
Worker	5.7660	3.0772	51.2154	0.1626	26.1148	0.0750	26.1898	6.9272	0.0690	6.9962		17,891.86 16	17,891.86 16	0.3480	0.4376	18,030.95 77
Total	7.0332	60.1053	68.6407	0.3744	34.1815	0.3617	34.5432	9.2485	0.3432	9.5918		40,654.50 17	40,654.50 17	0.9016	3.8316	41,818.85 61

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769
Total	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769
Total	1.7038	0.9881	13.4387	0.0385	5.2260	0.0234	5.2494	1.3863	0.0215	1.4078		4,040.5667	4,040.5667	0.1167	0.1127	4,077.0769

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4
Total	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4
Total	1.6107	0.9027	12.7414	0.0373	5.2260	0.0221	5.2481	1.3863	0.0204	1.4066		3,950.023 1	3,950.023 1	0.1071	0.1069	3,984.560 4

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6
Total	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6
Total	1.5249	0.8323	12.1579	0.0363	5.2260	0.0208	5.2468	1.3863	0.0191	1.4054		3,868.868 0	3,868.868 0	0.0989	0.1021	3,901.759 6

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	34.9413	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7
Total	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7
Total	1.4413	0.7726	11.6501	0.0353	5.2260	0.0195	5.2455	1.3863	0.0179	1.4042		3,795.880 2	3,795.880 2	0.0915	0.0980	3,827.378 7

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2
Total	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2
Total	1.3617	0.7225	11.2226	0.0345	5.2260	0.0182	5.2442	1.3863	0.0168	1.4030		3,731.605 0	3,731.605 0	0.0850	0.0946	3,761.932 2

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920
Total	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920
Total	1.2849	0.6795	10.8481	0.0338	5.2260	0.0171	5.2431	1.3863	0.0157	1.4019		3,674.4605	3,674.4605	0.0792	0.0918	3,703.7920

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555
Total	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555
Total	1.2146	0.6441	10.5255	0.0331	5.2260	0.0160	5.2420	1.3863	0.0147	1.4010		3,624.3478	3,624.3478	0.0741	0.0895	3,652.8555

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	34.9012	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.4570	3,580.4570	0.0696	0.0876	3,608.2924
Total	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.4570	3,580.4570	0.0696	0.0876	3,608.2924

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	34.8001	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4
Total	1.1539	0.6158	10.2491	0.0325	5.2260	0.0150	5.2410	1.3863	0.0138	1.4001		3,580.457 0	3,580.457 0	0.0696	0.0876	3,608.292 4

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406
Unmitigated	23.0128	23.7934	198.9401	0.2717	35.4391	0.2004	35.6395	9.4406	0.1868	9.6274		29,704.7164	29,704.7164	3.0767	2.0145	30,381.9406

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,305,797
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,271,855
Hotel	878.40	878.40	878.40	662,880	662,880
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	12,588,435
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	16,828,967

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775
NaturalGas Unmitigated	2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	119.17	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8103.39	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7689.91	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	0.11917	1.2900e-003	0.0117	9.8100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0200	14.0200	2.7000e-004	2.6000e-004	14.1033
Fast Food Restaurant with Drive Thru	8.10339	0.0874	0.7945	0.6673	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.3399	953.3399	0.0183	0.0175	959.0051
Hotel	7.68991	0.0829	0.7539	0.6333	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.6949	904.6949	0.0173	0.0166	910.0711
Industrial Park	235.038	2.5347	23.0429	19.3560	0.1383		1.7513	1.7513		1.7513	1.7513		27,651.4791	27,651.4791	0.5300	0.5069	27,815.7980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.7063	24.6029	20.6665	0.1476		1.8698	1.8698		1.8698	1.8698		29,523.5339	29,523.5339	0.5659	0.5413	29,698.9775

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Unmitigated	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	17.1471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	144.0605					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0970	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317
Total	161.3046	9.5500e-003	1.0604	8.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		2.2844	2.2844	5.8900e-003		2.4317

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725
Total	16.1253	88.6036	216.4662	0.3419		1.1966	1.1966		1.1966	1.1966	0.0000	32,381.5602	32,381.5602	1.4245		32,417.1725

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.52	0.00	0.00	0.58	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.11	0.11	-0.01	0.00	0.41	0.41	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.70	0.66	-0.20	0.00	0.86	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.33	0.86	-0.18	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.81	0.93	-0.14	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Final	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Final	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Final	2	2	No Change	0.00
Forklifts	Diesel	Tier 4 Final	3	3	No Change	0.00
Generator Sets	Diesel	Tier 4 Final	1	1	No Change	0.00
Graders	Diesel	Tier 4 Final	1	1	No Change	0.00
Pavers	Diesel	Tier 4 Final	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 4 Final	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Final	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Final	4	4	No Change	0.00
Scrapers	Diesel	Tier 4 Final	2	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	9	9	No Change	0.00
Welders	Diesel	Tier 4 Final	1	1	No Change	0.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.36160E-001	9.03990E-001	1.62322E+000	2.67000E-003	3.26600E-002	3.26600E-002	0.00000E+000	2.29793E+002	2.29793E+002	1.09600E-002	0.00000E+000	2.30067E+002
Cranes	2.28050E-001	1.62734E+000	1.22267E+000	5.05000E-003	6.56800E-002	6.12800E-002	0.00000E+000	4.38028E+002	4.38028E+002	7.50000E-002	0.00000E+000	4.39903E+002
Excavators	9.36300E-002	7.06440E-001	1.76152E+000	2.79000E-003	3.47200E-002	3.19400E-002	0.00000E+000	2.45088E+002	2.45088E+002	7.92700E-002	0.00000E+000	2.47070E+002
Forklifts	2.37150E-001	1.77992E+000	3.13782E+000	4.59000E-003	6.98400E-002	6.49400E-002	0.00000E+000	3.98470E+002	3.98470E+002	6.99900E-002	0.00000E+000	4.00220E+002
Generator Sets	2.08840E-001	1.89897E+000	3.28308E+000	5.92000E-003	6.06200E-002	6.06200E-002	0.00000E+000	5.08687E+002	5.08687E+002	1.66400E-002	0.00000E+000	5.09103E+002
Graders	8.96100E-002	1.02348E+000	4.38450E-001	1.79000E-003	3.30700E-002	3.04300E-002	0.00000E+000	1.56852E+002	1.56852E+002	5.07300E-002	0.00000E+000	1.58120E+002
Pavers	1.56400E-002	1.42480E-001	2.60620E-001	4.20000E-004	6.67000E-003	6.14000E-003	0.00000E+000	3.71487E+001	3.71487E+001	1.20100E-002	0.00000E+000	3.74490E+001
Paving Equipment	1.32100E-002	1.13820E-001	2.29180E-001	3.70000E-004	5.63000E-003	5.18000E-003	0.00000E+000	3.21947E+001	3.21947E+001	1.04100E-002	0.00000E+000	3.24550E+001
Rollers	1.23300E-002	1.29870E-001	1.66200E-001	2.40000E-004	6.53000E-003	6.01000E-003	0.00000E+000	2.07433E+001	2.07433E+001	6.71000E-003	0.00000E+000	2.09110E+001
Rubber Tired Dozers	2.73530E-001	2.81663E+000	1.24609E+000	3.46000E-003	1.25670E-001	1.15610E-001	0.00000E+000	3.03841E+002	3.03841E+002	9.82700E-002	0.00000E+000	3.06297E+002
Scrapers	3.85550E-001	3.78205E+000	3.05681E+000	8.19000E-003	1.49190E-001	1.37260E-001	0.00000E+000	7.19438E+002	7.19438E+002	2.32680E-001	0.00000E+000	7.25255E+002
Tractors/Loaders/Backhoes	4.59350E-001	3.83014E+000	7.00646E+000	1.03900E-002	1.33780E-001	1.24810E-001	0.00000E+000	9.04129E+002	9.04129E+002	1.87870E-001	0.00000E+000	9.08825E+002
Welders	1.73560E-001	1.14399E+000	1.46477E+000	2.30000E-003	2.61800E-002	2.61800E-002	0.00000E+000	1.69399E+002	1.69399E+002	1.40800E-002	0.00000E+000	1.69751E+002

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.67400E-002	1.15890E-001	1.64917E+000	2.67000E-003	3.57000E-003	3.57000E-003	0.00000E+000	2.29793E+002	2.29793E+002	1.09600E-002	0.00000E+000	2.30066E+002
Cranes	5.58300E-002	2.41910E-001	2.04695E+000	5.05000E-003	7.44000E-003	7.44000E-003	0.00000E+000	4.38027E+002	4.38027E+002	7.50000E-002	0.00000E+000	4.39902E+002
Excavators	3.43100E-002	1.48670E-001	2.11573E+000	2.79000E-003	4.57000E-003	4.57000E-003	0.00000E+000	2.45088E+002	2.45088E+002	7.92700E-002	0.00000E+000	2.47070E+002
Forklifts	5.08600E-002	2.20380E-001	3.13624E+000	4.59000E-003	6.78000E-003	6.78000E-003	0.00000E+000	3.98470E+002	3.98470E+002	6.99900E-002	0.00000E+000	4.00219E+002
Generator Sets	5.92000E-002	2.56540E-001	3.65072E+000	5.92000E-003	7.89000E-003	7.89000E-003	0.00000E+000	5.08686E+002	5.08686E+002	1.66400E-002	0.00000E+000	5.09102E+002
Graders	2.19100E-002	9.49300E-002	8.03220E-001	1.79000E-003	2.92000E-003	2.92000E-003	0.00000E+000	1.56851E+002	1.56851E+002	5.07300E-002	0.00000E+000	1.58120E+002
Pavers	5.20000E-003	2.25300E-002	3.20670E-001	4.20000E-004	6.90000E-004	6.90000E-004	0.00000E+000	3.71486E+001	3.71486E+001	1.20100E-002	0.00000E+000	3.74490E+001
Paving Equipment	4.53000E-003	1.96100E-002	2.79090E-001	3.70000E-004	6.00000E-004	6.00000E-004	0.00000E+000	3.21947E+001	3.21947E+001	1.04100E-002	0.00000E+000	3.24550E+001
Rollers	2.90000E-003	1.25500E-002	1.78540E-001	2.40000E-004	3.90000E-004	3.90000E-004	0.00000E+000	2.07433E+001	2.07433E+001	6.71000E-003	0.00000E+000	2.09110E+001
Rubber Tired Dozers	4.23400E-002	1.83490E-001	1.55260E+000	3.46000E-003	5.65000E-003	5.65000E-003	0.00000E+000	3.03840E+002	3.03840E+002	9.82700E-002	0.00000E+000	3.06297E+002
Scrapers	1.00660E-001	4.36210E-001	3.69103E+000	8.19000E-003	1.34200E-002	1.34200E-002	0.00000E+000	7.19437E+002	7.19437E+002	2.32680E-001	0.00000E+000	7.25254E+002
Tractors/Loaders/Balckhoes	1.17070E-001	5.07310E-001	7.21941E+000	1.03900E-002	1.56100E-002	1.56100E-002	0.00000E+000	9.04127E+002	9.04127E+002	1.87870E-001	0.00000E+000	9.08824E+002
Welders	3.94300E-002	9.03590E-001	1.34716E+000	2.30000E-003	2.63000E-003	2.63000E-003	0.00000E+000	1.69398E+002	1.69398E+002	1.40800E-002	0.00000E+000	1.69750E+002

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.03613E-001	8.71802E-001	-1.59867E-002	0.00000E+000	8.90692E-001	8.90692E-001	0.00000E+000	1.21849E-006	1.21849E-006	0.00000E+000	0.00000E+000	1.17357E-006
Cranes	7.55185E-001	8.51346E-001	-6.74164E-001	0.00000E+000	8.86724E-001	8.78590E-001	0.00000E+000	1.18714E-006	1.18714E-006	0.00000E+000	0.00000E+000	1.18208E-006
Excavators	6.33558E-001	7.89550E-001	-2.01082E-001	0.00000E+000	8.68376E-001	8.56919E-001	0.00000E+000	1.18325E-006	1.18325E-006	0.00000E+000	0.00000E+000	1.17376E-006
Forklifts	7.85537E-001	8.76185E-001	5.03534E-004	0.00000E+000	9.02921E-001	8.95596E-001	0.00000E+000	1.20461E-006	1.20461E-006	0.00000E+000	0.00000E+000	1.19934E-006
Generator Sets	7.16529E-001	8.64906E-001	-1.11980E-001	0.00000E+000	8.69845E-001	8.69845E-001	0.00000E+000	1.19917E-006	1.19917E-006	0.00000E+000	0.00000E+000	1.17854E-006
Graders	7.55496E-001	9.07248E-001	-8.31953E-001	0.00000E+000	9.11702E-001	9.04042E-001	0.00000E+000	1.21134E-006	1.21134E-006	0.00000E+000	0.00000E+000	1.20162E-006
Pavers	6.67519E-001	8.41873E-001	-2.30412E-001	0.00000E+000	8.96552E-001	8.87622E-001	0.00000E+000	1.07675E-006	1.07675E-006	0.00000E+000	0.00000E+000	1.06812E-006
Paving Equipment	6.57078E-001	8.27710E-001	-2.17776E-001	0.00000E+000	8.93428E-001	8.84170E-001	0.00000E+000	9.31831E-007	9.31831E-007	0.00000E+000	0.00000E+000	1.23248E-006
Rollers	7.64801E-001	9.03365E-001	-7.42479E-002	0.00000E+000	9.40276E-001	9.35108E-001	0.00000E+000	9.64167E-007	9.64167E-007	0.00000E+000	0.00000E+000	9.56433E-007
Rubber Tired Dozers	8.45209E-001	9.34855E-001	-2.45977E-001	0.00000E+000	9.55041E-001	9.51129E-001	0.00000E+000	1.18483E-006	1.18483E-006	0.00000E+000	0.00000E+000	1.20798E-006
Scrapers	7.38918E-001	8.84663E-001	-2.07478E-001	0.00000E+000	9.10048E-001	9.02229E-001	0.00000E+000	1.18148E-006	1.18148E-006	0.00000E+000	0.00000E+000	1.18579E-006
Tractors/Loaders/Balckhoes	7.45140E-001	8.67548E-001	-3.03934E-002	0.00000E+000	8.83316E-001	8.74930E-001	0.00000E+000	1.18346E-006	1.18346E-006	0.00000E+000	0.00000E+000	1.18835E-006
Welders	7.72816E-001	2.10142E-001	8.02925E-002	0.00000E+000	8.99542E-001	8.99542E-001	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.17820E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
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Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	4.54	1.21	4.54	1.21	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	29.75	8.07	29.75	8.07	0.00	0.00
Grading	Fugitive Dust	4.30	1.19	4.30	1.19	0.00	0.00
Grading	Roads	0.36	0.10	0.36	0.10	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.96	0.46	0.96	0.46	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.03	0.20		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Airport South Industrial Project - Full Buildout of Annexation Area_Tier 4 Mitigation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: Sacramento

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	
Sacramento	2029	HHDT	Aggregate	Aggregate	Diesel	10083.56489	944669.6263	944669.6263		0	113359.2238	2.380079274	0.027007233	0.028228381	1546.813686

HHDT	Total KSF	Trip Rate	Total Daily Trips	Avg VMT/Trip	Total VMT
Full Buildout	6,609.30	0.387181699	2,559.00	44.8	114,643.20
Proposed Project	5,204.50	0.387181699	2,015.09	44.8	90,275.90

HHDT	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr
Full Buildout	601.5536089	6.825948469	7.134587763	0.853243559	0.89182347	48,833.40
Proposed Project	473.6940005	5.375100057	5.618138383	0.671887507	0.702267298	38,453.91

Proposed Project Emissions							
	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr*	ROG (lbs/day)
CalEEMod	154.64	12.54	27.38	2.07	4.66	3,153.88	172.37
HHDT Emissions	473.69	5.38	5.62	0.67	0.70	38,453.91	N/A
Total	628.33	17.91	32.99	2.74	5.36	41,607.79	172.37

Full Buildout Emissions							
	Nox (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (tons/yr)	PM10 (tons/yr)	MTCO2e/yr*	ROG (lbs/day)
CalEEMod	137.01	12.70	38.71	2.22	6.79	5,089.08	214.49
HHDT Emissions	601.55	6.83	7.13	0.85	0.89	48,833.40	N/A
Total	738.56	19.52	45.84	3.07	7.68	53,922.48	214.49

* MTCO2e/yr is mobile emissions only. See CalEEMod for other emissions sources and total annual emissions.

VMT per Employee	Employees per ksf	Total KSF	Total VMT (daily)	Annual VMT
22.12	0.57208238	1,404.80	17,776.99	6,488,600.82

VMT per Employee	Employees per ksf	Total KSF	Total VMT (daily)	Annual VMT
22.12	0.57208238	6,609.30	83,637.14	30,527,555.11


Full buildout VMT	Future Industrial VMT	Project-Specific VMT	Porportion of VMT
16,817,740	3,574,593.55	13,243,146.45	21.255%

Road Construction Emissions Model
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

Input Type

Project Name	ASIP - Off-Site Pipeline	
Construction Start Year	2023	Enter a Year between 2014 and 2040 (inclusive)
Project Type	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	1.00	month
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 <small>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)</small>	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.32	miles
Total Project Area	1.69	acres
Maximum Area Disturbed/Day	1.69	acres
Water Trucks Used?	2	1. Yes 2. No



To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd ³) (assume 20 if unknown)	Import Volume (yd ³ /day)	Export Volume (yd ³ /day)
Soil	Grubbing/Land Clearing	20.00	0.00	0.00
	Grading/Excavation	20.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	20.00	0.00	330.07
	Paving	20.00	0.00	0.00
Asphalt	Grubbing/Land Clearing	20.00	0.00	0.00
	Grading/Excavation	20.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	20.00	0.00	0.00
	Paving	20.00	0.00	0.00

Mitigation Options

On-road Fleet Emissions Mitigation	2010 and Newer On-road Vehicles Fleet	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Program Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.10		1/1/2023
Grading/Excavation	0.00	0.40		1/1/2023
Drainage/Utilities/Sub-Grade	1.00	0.35		1/1/2023
Paving	0.00	0.15		2/1/2023
Totals (Months)		1		

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		15.00			0	0.00					
Miles/round trip: Grading/Excavation		15.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		15.00			17	255.00					
Miles/round trip: Paving		15.00			0	0.00					
2010+ Model Year Mitigation Option Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.02	0.23	1.84	0.06	0.03	0.01	964.13	0.00	0.15	1,009.31
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.02	0.00	0.00	0.00	10.61	0.00	0.00	11.10
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.00	0.02	0.00	0.00	0.00	10.61	0.00	0.00	11.10

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

Asphalt Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		15.00			0	0.00					
Miles/round trip: Grading/Excavation		15.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		15.00			0	0.00					
Miles/round trip: Paving		15.00			0	0.00					
2010+ Model Year Mitigation Option Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D121 through D126.

Worker Commute Emissions		User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT						
User Input											
Miles/ one-way trip											
One-way trips/day											
No. of employees: Grubbing/Land Clearing				0	0.00						
No. of employees: Grading/Excavation				0	0.00						
No. of employees: Drainage/Utilities/Sub-Grade				0	0.00						
No. of employees: Paving				0	0.00						
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.02	0.91	0.07	0.05	0.02	0.00	317.66	0.00	0.01	319.68
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		1.04	2.75	0.29	0.00	0.00	0.00	68.26	0.07	0.03	79.50
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

Water Truck Emissions										
User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Round Trips/Vehicle/Day	Default Values Round Trips/Vehicle/Day	Calculated Trips/day	User Override of Miles/Round Trip	Default Values Miles/Round Trip	Calculated Daily VMT		
Grubbing/Land Clearing - Exhaust								0.00		
Grading/Excavation - Exhaust								0.00		
Drainage/Utilities/Subgrade								0.00		
Paving								0.00		
2010+ Model Year Mitigation Option Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)	0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)	0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Fugitive dust default values can be overridden in cells D183 through D185.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			0.00	0.00	0.00	0.00
Fugitive Dust - Drainage/Utilities/Subgrade			33.80	0.37	7.03	0.08

User-Defined Off-road Equipment		If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
	Model Default Tier	Sweepers/Scrubbers		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Model Default Tier	Tractors/Loaders/Backhoes		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Model Default Tier	Trenchers		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Model Default Tier	Welders		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving			pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving			tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>					0.02	0.22	0.18	0.01	0.01	0.00	33.70	0.01	0.00	33.93

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		221		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		231		8
Crawler Tractors		212		8
Crushing/Proc. Equipment		85		8
Excavators		158		8
Forklifts		89		8
Generator Sets		84		8
Graders		187		8
Off-Highway Tractors		124		8
Off-Highway Trucks		402		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		168		8
Pavers		130		8
Paving Equipment		132		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		80		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		247		8
Rubber Tired Loaders		203		8
Scrapers		367		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		263		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		97		8
Trenchers		78		8
Welders		46		8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> ASIP - Off-Site Pipeline														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	1.90	20.48	17.87	34.71	0.91	33.80	7.87	0.84	7.03	0.04	4,027.86	0.52	0.18	4,093.60
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	1.90	20.48	17.87	34.71	0.91	33.80	7.87	0.84	7.03	0.04	4,027.86	0.52	0.18	4,093.60
Total (tons/construction project)	0.02	0.23	0.20	0.38	0.01	0.37	0.09	0.01	0.08	0.00	44.31	0.01	0.00	45.03

Notes:		Project Start Year ->	2023
		Project Length (months) ->	1
		Total Project Area (acres) ->	2
		Maximum Area Disturbed/Day (acres) ->	2
		Water Truck Used? ->	No
		Total Material Imported/Exported Volume (yd ³ /day)	
		Daily VMT (miles/day)	
Phase	Soil	Asphalt	Soil Hauling Asphalt Hauling Worker Commute Water Truck
Grubbing/Land Clearing	0	0	0 0 0 0
Grading/Excavation	0	0	0 0 0 0
Drainage/Utilities/Sub-Grade	330	0	255 0 0 0
Paving	0	0	0 0 0 0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> ASIP - Off-Site Pipeline														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	0.02	0.23	0.20	0.38	0.01	0.37	0.09	0.01	0.08	0.00	44.31	0.01	0.00	40.85
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.02	0.23	0.20	0.38	0.01	0.37	0.09	0.01	0.08	0.00	44.31	0.01	0.00	40.85
Total (tons/construction project)	0.02	0.23	0.20	0.38	0.01	0.37	0.09	0.01	0.08	0.00	44.31	0.01	0.00	40.85


PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.
 The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet Version 9.0.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

Input Type

Project Name	ASIP - Off-Site Pipeline (Mitigated)	
Construction Start Year	2023	Enter a Year between 2014 and 2040 (inclusive)
Project Type	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	1.00	month
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 <small>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)</small>	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.32	miles
Total Project Area	1.69	acres
Maximum Area Disturbed/Day	1.69	acres
Water Trucks Used?	2	1. Yes 2. No



To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd ³) (assume 20 if unknown)	Import Volume (yd ³ /day)	Export Volume (yd ³ /day)
Soil	Grubbing/Land Clearing	20.00	0.00	0.00
	Grading/Excavation	20.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	20.00	0.00	330.07
	Paving	20.00	0.00	0.00
Asphalt	Grubbing/Land Clearing	20.00	0.00	0.00
	Grading/Excavation	20.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	20.00	0.00	0.00
	Paving	20.00	0.00	0.00

Mitigation Options

On-road Fleet Emissions Mitigation	2010 and Newer On-road Vehicles Fleet	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	Tier 4 Equipment	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation).
Will all off-road equipment be tier 4?	All Tier 4 Equipment	Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Program Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.10		1/1/2023
Grading/Excavation	0.00	0.40		1/1/2023
Drainage/Utilities/Sub-Grade	1.00	0.35		1/1/2023
Paving	0.00	0.15		2/1/2023
Totals (Months)		1		

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		15.00			0	0.00					
Miles/round trip: Grading/Excavation		15.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		15.00			17	255.00					
Miles/round trip: Paving		15.00			0	0.00					
2010+ Model Year Mitigation Option Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.02	0.23	1.84	0.06	0.03	0.01	964.13	0.00	0.15	1,009.31
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.02	0.00	0.00	0.00	10.61	0.00	0.00	11.10
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.00	0.02	0.00	0.00	0.00	10.61	0.00	0.00	11.10

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

Asphalt Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		15.00			0	0.00					
Miles/round trip: Grading/Excavation		15.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		15.00			0	0.00					
Miles/round trip: Paving		15.00			0	0.00					
2010+ Model Year Mitigation Option Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D121 through D126.

Worker Commute Emissions		User Override of Worker Commute Default Values	Default Values								
User Input											
Miles/ one-way trip				Calculated Daily Trips	Calculated Daily VMT						
One-way trips/day				0	0.00						
No. of employees: Grubbing/Land Clearing				0	0.00						
No. of employees: Grading/Excavation				0	0.00						
No. of employees: Drainage/Utilities/Sub-Grade				0	0.00						
No. of employees: Paving				0	0.00						
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)		0.02	0.91	0.07	0.05	0.02	0.00	317.66	0.00	0.01	319.68
Paving (grams/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		1.04	2.75	0.29	0.00	0.00	0.00	68.26	0.07	0.03	79.50
Paving (grams/trip)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

Water Truck Emissions										
User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Round Trips/Vehicle/Day	Default Values Round Trips/Vehicle/Day	Calculated Trips/day	User Override of Miles/Round Trip	Default Values Miles/Round Trip	Calculated Daily VMT		
Grubbing/Land Clearing - Exhaust								0.00		
Grading/Excavation - Exhaust								0.00		
Drainage/Utilities/Subgrade								0.00		
Paving								0.00		
2010+ Model Year Mitigation Option Emission Rates										
	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/mile)	0.03	0.40	2.98	0.11	0.05	0.02	1,714.99	0.00	0.27	1,795.36
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)	0.00	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions										
	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Fugitive dust default values can be overridden in cells D183 through D185.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			0.00	0.00	0.00	0.00
Fugitive Dust - Drainage/Utilities/Subgrade			33.80	0.37	7.03	0.08

Values in cells D195 through D228, D246 through D279, D297 through D330, and D348 through D381 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions														
Grubbing/Land Clearing	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Default											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equiprr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment					If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab									
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grubbing/Land Clearing		pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grubbing/Land Clearing		tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation														
Grubbing/Land Clearing	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Default											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equiprr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment					If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab									
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e

User-Defined Off-road Equipment		If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
	Tier 4	Sweepers/Scrubbers		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tier 4	Tractors/Loaders/Backhoes		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tier 4	Trenchers		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tier 4	Welders		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving		pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving		tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>				0.01	0.24	0.03	0.00	0.00	0.00	33.70	0.01	0.00	33.93	

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		221		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		231		8
Crawler Tractors		212		8
Crushing/Proc. Equipment		85		8
Excavators		158		8
Forklifts		89		8
Generator Sets		84		8
Graders		187		8
Off-Highway Tractors		124		8
Off-Highway Trucks		402		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		168		8
Pavers		130		8
Paving Equipment		132		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		80		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		247		8
Rubber Tired Loaders		203		8
Scrapers		367		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		263		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		97		8
Trenchers		78		8
Welders		46		8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> ASIP - Off-Site Pipeline (Mitigated)														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	0.93	22.48	4.91	34.02	0.22	33.80	7.21	0.18	7.03	0.04	4,027.86	0.52	0.18	4,093.60
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	0.93	22.48	4.91	34.02	0.22	33.80	7.21	0.18	7.03	0.04	4,027.86	0.52	0.18	4,093.60
Total (tons/construction project)	0.01	0.25	0.05	0.37	0.00	0.37	0.08	0.00	0.08	0.00	44.31	0.01	0.00	45.03

Notes:		Project Start Year ->	2023
		Project Length (months) ->	1
		Total Project Area (acres) ->	2
		Maximum Area Disturbed/Day (acres) ->	2
		Water Truck Used? ->	No
		Total Material Imported/Exported Volume (yd ³ /day)	
		Daily VMT (miles/day)	
Phase	Soil	Asphalt	Soil Hauling Asphalt Hauling Worker Commute Water Truck
Grubbing/Land Clearing	0	0	0 0 0 0
Grading/Excavation	0	0	0 0 0 0
Drainage/Utilities/Sub-Grade	330	0	255 0 0 0
Paving	0	0	0 0 0 0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> ASIP - Off-Site Pipeline (Mitigated)														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	0.01	0.25	0.05	0.37	0.00	0.37	0.08	0.00	0.08	0.00	44.31	0.01	0.00	40.85
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.01	0.25	0.05	0.37	0.00	0.37	0.08	0.00	0.08	0.00	44.31	0.01	0.00	40.85
Total (tons/construction project)	0.01	0.25	0.05	0.37	0.00	0.37	0.08	0.00	0.08	0.00	44.31	0.01	0.00	40.85

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.
 The CO2e emissions are reported as metric tons per phase.

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	Airport South Industrial Project
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Reference Material\Air Quality Assessment_HRA Guidance_2023\Meteorological Data for AERMOD\Sac International Airport.SFC
ME	PROFFILE	Profile met file	I:\Projects\Reference Material\Air Quality Assessment_HRA Guidance_2023\Meteorological Data for AERMOD\Sac International Airport.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.2
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU | DAYTABLE | Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev. (m)	Emiss. Rate	Emiss. Units	Release Height (m)
			East (m)	North (m)				
LUN1H01R	POINT	V1	624356.6	4280909.1	0	2.68225E-05	(g/s)	3.84048
LUN1H01S	POINT	HL1	624356.6	4280909.8	0	2.68225E-05	(g/s)	0.18288
LUN1H01T	POINT	HH1	624358.3	4280909.8	0	2.68225E-05	(g/s)	3.84048
LUN1H01U	POINT	V2	624380.8	4280497.5	0	3.64222E-05	(g/s)	3.84048
LUN1H01V	POINT	HL2	624383.7	4280500.4	0	3.64222E-05	(g/s)	0.18288
LUN1H01W	POINT	HH2	624380.8	4280500.4	0	3.64222E-05	(g/s)	3.84048
LUN1H01X	POINT	V3	625169.3	4280921.1	0	2.11757E-05	(g/s)	3.84048
LUN1H01Y	POINT	HL3	625169.3	4280921.1	0	2.11757E-05	(g/s)	0.18288
LUN1H020	POINT	HH3	625169.3	4280923.2	0	2.11757E-05	(g/s)	3.84048
LUN1H021	POINT	V4	625296.3	4280517.5	0	3.64222E-05	(g/s)	3.84048
LUN1H022	POINT	HL4	625293.2	4280520.6	0	3.64222E-05	(g/s)	0.18288
LUN1H023	POINT	HH4	625293.2	4280520.6	0	3.64222E-05	(g/s)	3.84048
LUN1H024	POINT	V5	626021	4280895.4	0	0.0000213169	(g/s)	3.84048
LUN1H025	POINT	HL5	626017.9	4280898.5	0	0.0000213169	(g/s)	0.18288
LUN1H026	POINT	HH5	626017.9	4280901.6	0	0.0000213169	(g/s)	3.84048
LUN1H002	VOLUME		626109.4	4280840.8	0	1.404589E-05	(g/s)	2.3
LUN1H003	VOLUME		626057.4	4280840.5	0	1.404589E-05	(g/s)	2.3
LUN1H004	VOLUME		626005.4	4280840.2	0	1.404589E-05	(g/s)	2.3
LUN1H005	VOLUME		625953.4	4280839.9	0	1.404589E-05	(g/s)	2.3
LUN1H006	VOLUME		625901.4	4280839.6	0	1.404589E-05	(g/s)	2.3
LUN1H007	VOLUME		625849.4	4280839.3	0	1.404589E-05	(g/s)	2.3
LUN1H008	VOLUME		625797.4	4280839.1	0	1.404589E-05	(g/s)	2.3
LUN1H009	VOLUME		625745.4	4280838.8	0	1.404589E-05	(g/s)	2.3
LUN1H00A	VOLUME		625693.4	4280838.5	0	1.404589E-05	(g/s)	2.3
LUN1H00B	VOLUME		625641.4	4280838.2	0	1.404589E-05	(g/s)	2.3
LUN1H00C	VOLUME		625589.4	4280837.9	0	1.404589E-05	(g/s)	2.3
LUN1H00D	VOLUME		625537.4	4280837.6	0	1.404589E-05	(g/s)	2.3
LUN1H00E	VOLUME		625485.4	4280837.4	0	1.404589E-05	(g/s)	2.3
LUN1H00H	VOLUME		625431.9	4280833.8	0	5.063473E-05	(g/s)	2.3
LUN1H00I	VOLUME		625379.9	4280834.5	0	5.063473E-05	(g/s)	2.3
LUN1H00J	VOLUME		625327.9	4280835.2	0	5.063473E-05	(g/s)	2.3
LUN1H00K	VOLUME		625275.9	4280836.0	0	5.063473E-05	(g/s)	2.3
LUN1H00L	VOLUME		625223.9	4280836.7	0	5.063473E-05	(g/s)	2.3
LUN1H00M	VOLUME		625171.9	4280837.4	0	5.063473E-05	(g/s)	2.3

LUN1H00N	VOLUME		625119.9	4280838.1	0	5.063473E-05	(g/s)	2.3
LUN1H00O	VOLUME		625067.9	4280838.9	0	5.063473E-05	(g/s)	2.3
LUN1H00P	VOLUME		625015.9	4280839.6	0	5.063473E-05	(g/s)	2.3
LUN1H00Q	VOLUME		624963.9	4280840.3	0	5.063473E-05	(g/s)	2.3
LUN1H00R	VOLUME		624912.0	4280841.1	0	5.063473E-05	(g/s)	2.3
LUN1H00S	VOLUME		624860.0	4280841.8	0	5.063473E-05	(g/s)	2.3
LUN1H00T	VOLUME		624808.0	4280842.5	0	5.063473E-05	(g/s)	2.3
LUN1H00U	VOLUME		624756.0	4280843.2	0	5.063473E-05	(g/s)	2.3
LUN1H00V	VOLUME		624704.0	4280844.0	0	5.063473E-05	(g/s)	2.3
LUN1H00W	VOLUME		624652.0	4280844.7	0	5.063473E-05	(g/s)	2.3
LUN1H00Z	VOLUME		624614.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H010	VOLUME		624562.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H011	VOLUME		624510.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H012	VOLUME		624458.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H013	VOLUME		624406.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H014	VOLUME		624354.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H015	VOLUME		624302.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H016	VOLUME		624250.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H017	VOLUME		624198.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H018	VOLUME		624146.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H019	VOLUME		624094.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H01A	VOLUME		624042.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H01B	VOLUME		623990.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H01C	VOLUME		623938.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H01D	VOLUME		623886.4	4280844.7	0	4.224243E-05	(g/s)	2.3
LUN1H01G	VOLUME		624662.7	4281390.2	0	0.0001034244	(g/s)	2.3
LUN1H01H	VOLUME		624661.6	4281338.2	0	0.0001034244	(g/s)	2.3
LUN1H01I	VOLUME		624660.6	4281286.2	0	0.0001034244	(g/s)	2.3
LUN1H01J	VOLUME		624659.5	4281234.2	0	0.0001034244	(g/s)	2.3
LUN1H01K	VOLUME		624658.4	4281182.2	0	0.0001034244	(g/s)	2.3
LUN1H01L	VOLUME		624657.4	4281130.3	0	0.0001034244	(g/s)	2.3
LUN1H01M	VOLUME		624656.3	4281078.3	0	0.0001034244	(g/s)	2.3
LUN1H01N	VOLUME		624655.3	4281026.3	0	0.0001034244	(g/s)	2.3
LUN1H01O	VOLUME		624654.2	4280974.3	0	0.0001034244	(g/s)	2.3
LUN1H01P	VOLUME		624653.1	4280922.3	0	0.0001034244	(g/s)	2.3
LUN1H01Q	VOLUME		624652.1	4280870.3	0	0.0001034244	(g/s)	2.3

Point Sources

Source ID / Pollutant ID	Description	UTM		Elev. (m)	Emiss. Rate (g/s)	Stack Height (m)	Stack Temp (K)	Stack Velocity (m/s)	Stack Diameter (m)
		East (m)	North (m)						
LUN1H01R	V1	624356.6	4280909.1	0	2.68225E-05	3.84048	366	51.71	0.1
LUN1H01S	HL1	624356.6	4280909.8	0	2.68225E-05	0.18288	366	0.001	0.1
LUN1H01T	HH1	624358.3	4280909.8	0	2.68225E-05	3.84048	366	0.001	0.1
LUN1H01U	V2	624380.8	4280497.5	0	3.64222E-05	3.84048	366	51.71	0.1

LUN1H01V	HL2	624383.7	4280500.4	0	3.64222E-05	0.18288	366	0.001	0.1
LUN1H01W	HH2	624380.8	4280500.4	0	3.64222E-05	3.84048	366	0.001	0.1
LUN1H01X	V3	625169.3	4280921.1	0	2.11757E-05	3.84048	366	51.71	0.1
LUN1H01Y	HL3	625169.3	4280921.1	0	2.11757E-05	0.18288	366	0.001	0.1
LUN1H020	HH3	625169.3	4280923.2	0	2.11757E-05	3.84048	366	0.001	0.1
LUN1H021	V4	625296.3	4280517.5	0	3.64222E-05	3.84048	366	51.71	0.1
LUN1H022	HL4	625293.2	4280520.6	0	3.64222E-05	0.18288	366	0.001	0.1
LUN1H023	HH4	625293.2	4280520.6	0	3.64222E-05	3.84048	366	0.001	0.1
LUN1H024	V5	626021	4280895.4	0	0.0000213169	3.84048	366	51.71	0.1
LUN1H025	HL5	626017.9	4280898.5	0	0.0000213169	0.18288	366	0.001	0.1
LUN1H026	HH5	626017.9	4280901.6	0	0.0000213169	3.84048	366	0.001	0.1

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev. (m)	Emiss. Rate (g/s)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
		East (m)	North (m)					
LUN1H002		626109.4	4280840.8	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H003		626057.4	4280840.5	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H004		626005.4	4280840.2	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H005		625953.4	4280839.9	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H006		625901.4	4280839.6	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H007		625849.4	4280839.3	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H008		625797.4	4280839.1	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H009		625745.4	4280838.8	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00A		625693.4	4280838.5	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00B		625641.4	4280838.2	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00C		625589.4	4280837.9	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00D		625537.4	4280837.6	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00E		625485.4	4280837.4	0	1.404589E-05	2.3	24.18605	2.139535
LUN1H00H		625431.9	4280833.8	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00I		625379.9	4280834.5	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00J		625327.9	4280835.2	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00K		625275.9	4280836.0	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00L		625223.9	4280836.7	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00M		625171.9	4280837.4	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00N		625119.9	4280838.1	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00O		625067.9	4280838.9	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00P		625015.9	4280839.6	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00Q		624963.9	4280840.3	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00R		624912.0	4280841.1	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00S		624860.0	4280841.8	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00T		624808.0	4280842.5	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00U		624756.0	4280843.2	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00V		624704.0	4280844.0	0	5.063473E-05	2.3	24.18605	2.139535
LUN1H00W		624652.0	4280844.7	0	5.063473E-05	2.3	24.18605	2.139535

LUN1H00Z		624614.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H010		624562.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H011		624510.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H012		624458.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H013		624406.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H014		624354.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H015		624302.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H016		624250.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H017		624198.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H018		624146.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H019		624094.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H01A		624042.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H01B		623990.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H01C		623938.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H01D		623886.4	4280844.7	0	4.224243E-05	2.3	24.18605	2.139535
LUN1H01G		624662.7	4281390.2	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01H		624661.6	4281338.2	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01I		624660.6	4281286.2	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01J		624659.5	4281234.2	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01K		624658.4	4281182.2	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01L		624657.4	4281130.3	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01M		624656.3	4281078.3	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01N		624655.3	4281026.3	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01O		624654.2	4280974.3	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01P		624653.1	4280922.3	0	0.0001034244	2.3	24.18605	2.139535
LUN1H01Q		624652.1	4280870.3	0	0.0001034244	2.3	24.18605	2.139535

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.01101	624559.90	4281781.00	0.00	0.00	1.80	DC	
	2ND	0.01011	624409.90	4281781.00	0.00	0.00	1.80	DC	
	3RD	0.00952	624709.90	4281781.00	0.00	0.00	1.80	DC	
	4TH	0.00826	624259.90	4281781.00	0.00	0.00	1.80	DC	
	5TH	0.00751	624859.90	4281781.00	0.00	0.00	1.80	DC	
	6TH	0.00667	624109.90	4281781.00	0.00	0.00	1.80	DC	
	7TH	0.00589	625009.90	4281781.00	0.00	0.00	1.80	DC	
	8TH	0.00547	623959.90	4281781.00	0.00	0.00	1.80	DC	
	9TH	0.00515	626200.20	4280760.20	0.00	0.00	1.80	DC	
	10TH	0.00515	626200.20	4280755.20	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	0.40444	ug/m**3	15010423	626198.70	4280894.40	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
11	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H
WARNING	SO	W320	Input Parameter May Be Out-of-Range for Parameter VS
WARNING	SO	W320	Input Parameter May Be Out-of-Range for Parameter VS

WARNING	SO	W320	Input Parameter May Be Out-of-Range for Parameter VS
WARNING	SO	W320	Input Parameter May Be Out-of-Range for Parameter VS
WARNING	SO	W320	Input Parameter May Be Out-of-Range for Parameter VS
WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

*HARP - HRACalc v21081 5/12/2023 8:16:41 AM - Cancer Risk - Input File: C:\Users\j\ahney\Desktop\HARPIASIP_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
1			9901	DieselExhPM	0.01101	9.53E-06	30YrCancerHighEnd_Inh_FAH16to70	*	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00



Strategic Area Project Health Effects Tool

Strategic Area Location	III. Downtown Sacramento	<-- Step 1: Input the area
NOx Emissions	656	<-- Step 2: Input NOx emissions in lbs./day
ROG Emissions	214.49	<-- Step 3: Input ROG emissions in lbs./day
PM25 Emissions	19.52	<-- Step 4: Input PM2.5 emissions in lbs./day

PM2.5 Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Emergency Room Visits, Asthma	0 - 99	2.5	2.3	0.012%	18419
Hospital Admissions, Asthma	0 - 64	0.16	0.15	0.0079%	1846
Hospital Admissions, All Respiratory	65 - 99	0.89	0.77	0.0039%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.45	0.40	0.0017%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.00023	0.00020	0.0054%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.019	0.018	0.0057%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.044	0.040	0.0054%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.074	0.068	0.0055%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.29	0.26	0.0051%	5052
Mortality					
Mortality, All Cause	30 - 99	6.3	5.6	0.013%	44766
Ozone Health Endpoint					
Ozone Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.51	0.39	0.0020%	19644
Emergency Room Visits, Asthma	0 - 17	2.6	2.1	0.036%	5859
Emergency Room Visits, Asthma	18 - 99	4.1	3.4	0.027%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.32	0.26	0.00084%	30386

1. Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.
2. Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.
3. The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.
4. The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.
5. The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*.

Sac Metro Air District Strategic Area Project Health Effects Tool, version 2, published September 2020

APPENDIX D



Operational Air Quality Mitigation Plan (AQMP)/Greenhouse Gas Reduction Plan (GHGRP) Form

Instructions: Please complete this form and submit it to ProjectReview@airquality.org for review. Include modeling files and other files as indicated.

The sections expand as you type so you will not run out of space.

Basic Information	
Project name (Include any previous names.)	Airport South Industrial Park
Land use types and sizes	6,609 ksf industrial park, 16.7 ksf fast food with drive through, 122 room hotel, 20 pump, convenience market with gas pumps, 3,670 parking spaces.
Targeted buildout year	2033 full buildout
Type of plan	<input checked="" type="checkbox"/> Air Quality Mitigation Plan (AQMP/AQ-15/AQ-35) <input type="checkbox"/> Greenhouse Gas Reduction Plan (GHGRP) <input type="checkbox"/> Combination Air Quality Mitigation Plan and Greenhouse Gas Reduction Plan (AQMP/GHGRP) <input type="checkbox"/> Other type of plan: Enter information here.
Plan name	Airport South Industrial Park 35% Air Quality Mitigation Plan

Applicant	
Business name	NorthPoint Development
Contact name	Andrew Burrer
Phone (office)	419-320-5956
Phone (other)	N/A
Email	aburrer@northpointkc.com

Consultant	
Business name	Raney Planning & Management
Consultant name	Rod Stinson
Phone (office)	(916) 372-6100
Phone (other)	N/A
Email	rods@raneymanagement.com

Land Use Jurisdiction	
Jurisdiction (city/county/other)	City of Sacramento, Sacramento LAFCo
Planner name	Scott Johnson, Senior Planner
Phone (office)	916-808-5842
Phone (other)	N/A
Email	srjohnson@cityofsacramento.org

Existing Land Use Designations	
List all existing or planned specific plans, master plans, community plans, design guidelines, AQMP/GHGRPs, special zoning or other related land use requirements that the project is currently subject to. Append or provide links to the documents.	Sacramento County LAFCo approval of a Sphere of Influence Amendment (SOIA) (including a related Municipal Services Review) and Reorganization (annexation and related detachments); and City of Sacramento approval of a Prezone, General Plan Amendment (GPA), Tentative Master Parcel Map, Development Agreement (DA) and Planned Unit Development (PUD).
Status of public facilities financing plan/urban services plan, if applicable. Append or provide links to the documents.	In process.
Is this project requesting a change to the Urban Services Boundary or the Urban Planning Area?	Yes, a change to both the USB and UPA.
Is the project as proposed assumed in the currently adopted MTP/SCS (year 2020)?	The project is not assumed in the MTP/SCS.

Environmental Review Timeline	
Date of most recent NOP	March 4, 2022
Level of review requested (preliminary/admin stage, DEIR stage, revision review, etc.)	Preliminary/admin stage.
Is this a recirculation or does this supersede a previous version?	First version.
Status of environmental review (for example, Admin, DEIR, FEIR)	DEIR is being prepared currently.

Air Quality Mitigation Plan			
Reduction Goal(s)	Threshold(s) of Significance	Source of Thresholds	Notes
35% reduction in ozone precursors. All feasible PM10 reductions.	65 lbs/day ROG, 65 lbs/day NOx, 80 lbs/day PM10	SMAQMD	Using CalEEMod 2020.4.0 and AQMP guidance version 4.3

Traffic Analysis	
Fill out this section if a traffic analysis was used to determine trip information.	
Name	Sacramento Airport South Industrial Development Local Transportation Analysis - Draft Report; Airport South Industrial VMT Analysis
Date	February 5, 2024; March 10, 2023
List any other projects that share this traffic analysis.	None

Concerns & Considerations for Individual Emissions Reduction Measures

Global and Categorical Maximums (aka caps): Be sure to remain under the caps described in the CAPCOA Guidance. See CAPCOA's Understanding and Using Fact Sheets.

Project Setting: CalEEMod project setting must match CAPCOA's project setting in which caps are determined.

Enforcement Mechanisms: Include a description of the enforcement mechanisms necessary to fund and carry out activities such as TMA membership, transportation passes, etc.

Mobile Emissions	
Were the mobile emissions calculated in CalEEMod or off-model? If CalEEMod was used, what version?	CalEEMod 2020.4.0 was used for baseline and proposed project analyses.
List the EMFAC version, if not using CalEEMod.	N/A
Include any additional relevant information.	Baseline uses CalEEMod default mobile trip info. Proposed project uses mobile trips modified based on the project traffic impact analysis.
Energy Emissions	
SMUD year	2033
California Building Standards Code (Title 24 energy compliance year)	2019 as noted in CalEEMod 2020.4.0.

Emissions Summary Table				
Complete for the applicable pollutants.				
<i>Pollutant</i>	<i>Unmitigated Business-As-Usual Baseline (tons/year)</i>	<i>Mitigated Project (tons/year)</i>	<i>Reduction target (tons/year, efficiency metrics, performance standards)</i>	<i>Target met? (Yes/No)</i>
NO _x	103.66 tons/year	38.03 tons/year	30.06 tons/year	Yes
ROG	42.53 tons/year	8.56 tons/year	3.56 tons/year	Yes
PM ₁₀	23.03 tons/year	16.26 tons/year	All feasible	Yes
PM _{2.5}	N/A	N/A	N/A	N/A
GHG (CO _{2e})	N/A	N/A	N/A	N/A

AQMP/GHGRP Reduction Measures

Measure Name: Traffic study (TS)

Type of measure

- Design feature/NOT assumed in baseline
- Condition of approval #: specify
- Mitigation measure #: specify

Quantification method

- CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- Air District CEQA Guide
- Other specify

Provide a brief description of measure and how it is valid to your project:

SMAQMD's Recommended Guidance for Land Use Emission Reductions Version 4.3 (pg. 16) recognizes project specific information is preferred to using CalEEMod model defaults in analyzing a project's emissions. DKS prepared a Local Transportation Analysis (February 5, 2024) and a VMT Analysis (March 10, 2023) for the project, which are being utilized for trip generation rates and trip lengths for the emissions calculations in mitigated project and the AQMP. The traffic impact analyses included therein used a combination of data from SACOG's SACSIM 19 travel demand model (a modified version of the City of Sacramento's 2040 Draft General Plan model) and data from the ITE Trip Generation Manual 11th Edition (pg. 29).

Describe the enforcement mechanism for this measure.

The traffic study includes the conditions of the transportation system planned for the project and the surrounding properties, intersections, roadways and freeway access. The transportation improvements are intrinsically part of the design of the project.

You may provide more details in an attachment.

Measure Name: Natural gas infrastructure prohibited, except for restaurant uses

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval.
- ✓ Mitigation measure #: Mitigation Measure 4.3-2 (1)

Quantification method

- ✓ CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- ✓ Air District CEQA Guide
- Other specify

Provide a brief description of measure and how it is valid to your project:

All land uses in the project will be constructed without natural gas infrastructure except for the restaurant uses (currently estimated as 16,700 square feet, fast food restaurants), in compliance with SMAQMD GHG measure BMP-1.

Describe the enforcement mechanism for this measure.

The exclusion of natural gas infrastructure will be required as a Condition of Approval and will be included in improvement plans reviewed/approved by the City to ensure the natural gas infrastructure is only constructed to service the restaurant land uses in the project site. The City Community Development Department will review and confirm the requirement is met during plan review.

You may provide more details in an attachment.

Measure Name: Funding and membership in the TMA for TDM services

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval.
- ✓ Mitigation measure #: Mitigation Measure 4.3-2 (2)

Quantification method

- ✓ CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- ✓ Air District CEQA Guide
- Other specify

Provide a brief description of measure and how it is valid to your project:

All the project land uses are non-residential, providing future employment opportunities. Each business will be required to join the North Natomas Jibe Transportation Management Association (TMA) or the Metro Air Park Property Owners Association, MAP Transportation Systems Management Committee (MAP TSMC), either through annual dues or through an assessment on the property. The North Natomas Jibe TMA or MAP TSMC will provide transportation demand management (TDM) services to the employees of the businesses located in the Airport South Industrial Park after consultation with the applicant and the City on the most efficient and effective TDM options for the proposed businesses. The project applicant will coordinate with the City of Sacramento and the TMA or MAP TSMC to determine the appropriate funding mechanism.

Describe the enforcement mechanism for this measure.

Funding will be provided either through a property assessment that would be implemented through annexation into the Community Facilities District (CFD), or through a development agreement where fees are required to be paid to the TMA or MAP TSMC for services annually. The applicant and TMA or MAP TSMC shall meet and discuss TDM fees that will be required for TMA services needed prior to the project being annexed into the City. The applicant or its representative will coordinate with the TMA or MAP TSMC on a regular basis, at a minimum annually, to set TDM goals, evaluate if the services provided are effective, and determine if service modifications are needed. Proof of the established funding mechanism shall be provided to the City Community Development Department and the SMAQMD.

You may provide more details in an attachment.

Measure Name: Zero emission forklifts

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval
- ✓ Mitigation measure #: Mitigation Measure 4.3-2, (3)

Quantification method

- ✓ CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- ✓ Air District CEQA Guide
- ✓ Other Targeted mobile NOx emissions that could be reduced using available technology.

Provide a brief description of measure and how it is valid to your project:

To reduce NOx emissions associated with the expected operation of diesel-powered forklifts in the industrial/warehouse land uses, the applicant will require the tenants to utilize zero emission forklifts.

Describe the enforcement mechanism for this measure.

The requirement to use zero emission forklifts will be included as a Condition of Approval on the project and included in lease and purchase agreements for the parcels/businesses. Documentation of the requirements contained in the lease/purchase agreements shall be provided to the City of Sacramento Community Development Department and the SMAQMD. Additionally, recordkeeping of forklift fleet information to demonstrate compliance shall also be provided to the City and SMAQMD.

You may provide more details in an attachment.

Measure Name: Zero emission heavy-duty truck fleet

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval
- ✓ Mitigation measure #: Mitigation Measure 4.3-2, (4)

Quantification method

- ✓ CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- ✓ Air District CEQA Guide
- ✓ Other Targeted mobile NOx emissions that could be reduced using available technology.

Provide a brief description of measure and how it is valid to your project:

Diesel-powered heavy-duty truck fleets are expected to serve the 6.6 million square feet of industrial land uses proposed for the project. Emissions from the estimated truck fleet dominate the NOx emissions from the proposed project. With the California Air Resources Board's Advanced Clean Fleet Regulation requiring the use of zero emission vehicles (trucks and buses) and the State's 2045 carbon neutrality goal, vehicle fleet technologies are evolving to meet the regulation and carbon neutrality goal. The project applicant will commit to requiring 4.5 percent of all heavy duty vehicles trips from the project to utilize zero emission heavy duty trucks by full buildout of the Annexation area.

Describe the enforcement mechanism for this measure.

The requirement to use zero emission trucks will be included as a Condition of Approval on the project and included in lease and purchase agreements for the parcels/businesses. Documentation of the requirements contained in the lease/purchase agreements shall be provided to the City of Sacramento Community Development Department and the SMAQMD. Additionally, recordkeeping of the heavy duty truck fleet information to demonstrate compliance shall also be provided to the City and SMAQMD. In the event that there is a disruption in the manufacturing of zero emission vehicles/trucks or that sufficient vehicles/trucks are not commercially available for the intended application, the "clean fleet requirements" may be adjusted as minimally as possible by the CDD to accommodate the manufacturing disruption or unavailability of commercially available vehicles/trucks

You may provide more details in an attachment.

Measure Name: Improve pedestrian network (SDT-1 in CalEEMod)

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval
- ✓ Mitigation measure #: Mitigation Measure 4.3-2 (5)

Quantification method

- ✓ CAPCOA Guidance
- Traffic study
- Off-model calculation
- Air District staff guidance
- ✓ Air District CEQA Guide
- Other specify

Provide a brief description of measure and how it is valid to your project:

The project shall provide complete sidewalks separated from roadway throughout the project site and pedestrian crossing at intersections onsite to ensure employees and visitors can walk between land uses/businesses. The project shall also connect the pedestrian network on-site to the adjacent properties off-site (including South Bayou Way, Power Line Road and potential future connections) as indicated on the preliminary site plan.

Describe the enforcement mechanism for this measure.

Pedestrian infrastructure shall be clearly shown on project site improvement plans that will be reviewed and approved by the City of Sacramento Community Development Department.

You may provide more details in an attachment.

Measure Name: Provide EV Ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces

Type of measure

- Design feature/assumed in baseline
- ✓ Condition of approval #: Required to be included as a Condition of Approval
- ✓ Mitigation measure #: Mitigation Measure 4.3-2 (6)

Quantification method

- CAPCOA Guidance
- Traffic study
- ✓ Off-model calculation
- Air District staff guidance
- Air District CEQA Guide
- Other specify

Provide a brief description of measure and how it is valid to your project:

The proposed project shall provide EV Ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces. Given that the proposed project is anticipated to include a total of approximately 3,670 parking stalls, the project would be required to provide 1,652 EV Ready spaces, and 545 of the EV Ready spaces would be required to have EVSE, which are installed charging receptacles or permanently installed chargers.

Describe the enforcement mechanism for this measure.

EV Ready infrastructure shall be clearly shown on project site improvement plans that will be reviewed and approved by the City of Sacramento Community Development Department.

You may provide more details in an attachment.

I have appended all relevant air quality and greenhouse gas calculations including modeling files (for example, CalEEMod files), hand calculations, etc. for review.

Submitted on 4/18/2024 to Sac Metro Air District / Land Use Jurisdiction

Submitted by Rod Stinson, Raney Planning & Management

Electronic or written signature *Rod Stinson*

ATTACHMENTS

CalEEMod Baseline Annual Report

CalEEMod Mitigated Annual Report

Preliminary Project Site Plan

AQ35 Calculations

Off-Model EV Charging NOx Credit Calculations

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Airport South Industrial Project - Full Buildout of Annexation Area
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2033
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Square footage and lot acreages adjusted per site plan.
- Construction Phase - Phase timing adjusted per applicant-provided questionnaire.
- Grading - Based on applicant provided AQ questionnaire.
- Vehicle Trips - Baseline project w/o traffic study
- Water Mitigation - Compliant with MWELO.
- Operational Off-Road Equipment - Based on applicant provided AQ questionnaire.

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	240.00	90.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	440.00	1,800.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1166	1.1849	0.8026	1.6900e-003	0.8541	0.0545	0.9086	0.4363	0.0501	0.4864	0.0000	148.3983	148.3983	0.0467	1.3000e-004	149.6037
2024	0.4511	5.6438	3.9609	0.0138	1.9477	0.1852	2.1329	0.5994	0.1708	0.7702	0.0000	1,278.1858	1,278.1858	0.2520	0.0881	1,310.7479
2025	0.4085	5.0370	3.7848	0.0138	1.8507	0.1580	2.0087	0.5772	0.1457	0.7230	0.0000	1,273.8120	1,273.8120	0.2523	0.0873	1,306.1262
2026	3.5099	6.8058	9.5165	0.0400	3.8050	0.1097	3.9147	0.9043	0.1030	1.0073	0.0000	3,814.9161	3,814.9161	0.1770	0.3082	3,911.1960
2027	6.1411	10.2743	14.4108	0.0645	4.9720	0.1346	5.1067	1.3460	0.1274	1.4734	0.0000	6,201.5214	6,201.5214	0.2146	0.5124	6,359.5756
2028	6.0469	10.0595	13.8708	0.0628	4.9529	0.1322	5.0851	1.3408	0.1251	1.4659	0.0000	6,057.6880	6,057.6880	0.2069	0.4989	6,211.5341
2029	6.0014	9.9385	13.5023	0.0617	4.9719	0.1308	5.1027	1.3459	0.1238	1.4697	0.0000	5,970.3706	5,970.3706	0.2017	0.4903	6,121.5054
2030	5.9232	9.1655	13.1563	0.0610	4.9718	0.0754	5.0472	1.3459	0.0726	1.4185	0.0000	5,911.1760	5,911.1760	0.1385	0.4808	6,057.9023
2031	5.8608	9.0421	12.8510	0.0600	4.9717	0.0738	5.0455	1.3459	0.0711	1.4170	0.0000	5,822.4350	5,822.4350	0.1336	0.4724	5,966.5467
2032	5.8260	8.9718	12.6404	0.0592	4.9907	0.0726	5.0633	1.3510	0.0700	1.4210	0.0000	5,766.5261	5,766.5261	0.1298	0.4669	5,908.9209
2033	2.0321	2.8555	4.0409	0.0189	1.6253	0.0230	1.6483	0.4399	0.0222	0.4621	0.0000	1,844.6678	1,844.6678	0.0408	0.1481	1,889.8085
Maximum	6.1411	10.2743	14.4108	0.0645	4.9907	0.1852	5.1067	1.3510	0.1708	1.4734	0.0000	6,201.5214	6,201.5214	0.2523	0.5124	6,359.5756

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	0.9839	0.9839
2	12-1-2023	2-29-2024	1.3182	1.3182
3	3-1-2024	5-31-2024	1.5267	1.5267
4	6-1-2024	8-31-2024	1.5175	1.5175
5	9-1-2024	11-30-2024	1.5191	1.5191
6	12-1-2024	2-28-2025	1.4045	1.4045
7	3-1-2025	5-31-2025	1.3608	1.3608
8	6-1-2025	8-31-2025	1.3519	1.3519
9	9-1-2025	11-30-2025	1.3548	1.3548
10	12-1-2025	2-28-2026	1.0085	1.0085
11	3-1-2026	5-31-2026	0.3456	0.3456
12	6-1-2026	8-31-2026	3.7873	3.7873
13	9-1-2026	11-30-2026	4.1927	4.1927
14	12-1-2026	2-28-2027	4.1425	4.1425
15	3-1-2027	5-31-2027	4.1190	4.1190
16	6-1-2027	8-31-2027	4.0736	4.0736
17	9-1-2027	11-30-2027	4.1188	4.1188
18	12-1-2027	2-29-2028	4.1207	4.1207
19	3-1-2028	5-31-2028	4.0560	4.0560
20	6-1-2028	8-31-2028	4.0112	4.0112
21	9-1-2028	11-30-2028	4.0557	4.0557
22	12-1-2028	2-28-2029	4.0157	4.0157
23	3-1-2029	5-31-2029	3.9974	3.9974
24	6-1-2029	8-31-2029	3.9532	3.9532
25	9-1-2029	11-30-2029	3.9972	3.9972
26	12-1-2029	2-28-2030	3.8570	3.8570
27	3-1-2030	5-31-2030	3.7820	3.7820
28	6-1-2030	8-31-2030	3.7381	3.7381

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

29	9-1-2030	11-30-2030	3.7838	3.7838
30	12-1-2030	2-28-2031	3.7532	3.7532
31	3-1-2031	5-31-2031	3.7341	3.7341
32	6-1-2031	8-31-2031	3.6905	3.6905
33	9-1-2031	11-30-2031	3.7362	3.7362
34	12-1-2031	2-29-2032	3.7511	3.7511
35	3-1-2032	5-31-2032	3.6922	3.6922
36	6-1-2032	8-31-2032	3.6486	3.6486
37	9-1-2032	11-30-2032	3.6948	3.6948
38	12-1-2032	2-28-2033	3.6733	3.6733
39	3-1-2033	5-31-2033	2.5485	2.5485
		Highest	4.1927	4.1927

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	10.1826	10.6871	86.3978	0.1667	21.5096	0.1104	21.6200	5.7459	0.1031	5.8490	0.0000	16,537.4957	16,537.4957	1.1929	0.8487	16,820.2278
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7936	1,787.5065	1.9861	1.1963	2,193.6541
Total	42.5278	28.4689	122.7719	0.2449	21.5096	0.6316	22.1412	5.7459	0.6243	6.3702	2,259.9406	42,314.3742	44,574.3148	106.2981	2.3049	47,918.6173

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	20,126.4226	20,126.4226	1.4984	0.2599	20,241.3288
Mobile	10.1826	10.6871	86.3978	0.1667	21.5096	0.1104	21.6200	5.7459	0.1031	5.8490	0.0000	16,537.4957	16,537.4957	1.1929	0.8487	16,820.2278
Offroad	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7031	1,787.4160	1.9861	1.1963	2,193.5632
Total	42.5278	28.4689	122.7719	0.2449	21.5096	0.6316	22.1412	5.7459	0.6243	6.3702	2,259.9406	42,314.2838	44,574.2244	106.2981	2.3049	47,918.5264

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/30/2026	6/4/2026	5	90
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800
5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800

Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	0.3786	3.6466	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6465	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	0.3786	3.6465	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	10.1826	10.6871	86.3978	0.1667	21.5096	0.1104	21.6200	5.7459	0.1031	5.8490	0.0000	16,537.49 57	16,537.49 57	1.1929	0.8487	16,820.22 78
Unmitigated	10.1826	10.6871	86.3978	0.1667	21.5096	0.1104	21.6200	5.7459	0.1031	5.8490	0.0000	16,537.49 57	16,537.49 57	1.1929	0.8487	16,820.22 78

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	6,450.00	6,450.00	6450.00	2,559,249	2,559,249
Fast Food Restaurant with Drive Thru	7,864.87	10,289.20	7892.09	5,674,939	5,674,939
Hotel	1,019.92	999.18	725.90	1,499,781	1,499,781
Industrial Park	22,273.34	16,787.62	8195.53	48,379,487	48,379,487
Parking Lot	0.00	0.00	0.00		
Total	37,608.13	34,526.01	23,263.52	58,113,455	58,113,455

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Industrial Park	10.00	5.00	6.50	59.00	28.00	13.00	79	19	2
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
NaturalGas Mitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988
NaturalGas Unmitigated	0.4939	4.4900	3.7716	0.0269		0.3412	0.3412		0.3412	0.3412	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	43497	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3212	2.3212	4.0000e-005	4.0000e-005	2.3350
Fast Food Restaurant with Drive Thru	2.95774e+006	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8361	157.8361	3.0300e-003	2.8900e-003	158.7741
Hotel	2.80682e+006	0.0151	0.1376	0.1156	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7824	149.7824	2.8700e-003	2.7500e-003	150.6725
Industrial Park	8.57887e+007	0.4626	4.2053	3.5325	0.0252		0.3196	0.3196		0.3196	0.3196	0.0000	4,578.0125	4,578.0125	0.0878	0.0839	4,605.2173
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4939	4.4900	3.7716	0.0269		0.3413	0.3413		0.3413	0.3413	0.0000	4,887.9522	4,887.9522	0.0937	0.0896	4,916.9988

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Unmitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,787,416 0	1.9861	1.1963	2,193.563 2
Unmitigated	1,787,506 5	1.9861	1.1963	2,193.654 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1528.4 / 0	1,777.317 8	1.9752	1.1898	2,181.250 1
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.506 4	1.9861	1.1963	2,193.654 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1528.4 / 0	1,777.3178	1.9752	1.1898	2,181.2501
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.4160	1.9861	1.1963	2,193.5632

8.0 Waste Detail

8.1 Mitigation Measures Waste

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,716.227 7	101.4262	0.0000	4,251.881 5
Unmitigated	1,716.227 7	101.4262	0.0000	4,251.881 5

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.618 5	98.3170	0.0000	4,121.544 5
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.227 7	101.4262	0.0000	4,251.881 5

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.6185	98.3170	0.0000	4,121.5445
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.2277	101.4262	0.0000	4,251.8815

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Diesel

Airport South Industrial Project - Full Buildout of Annexation Area - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494
Total	2.4188	13.2905	32.4699	0.0513		0.1795	0.1795		0.1795	0.1795	0.0000	4,406.4034	4,406.4034	0.1938	0.0000	4,411.2494

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	6,609.30	1000sqft	318.60	6,609,300.00	0
Parking Lot	3,670.00	Space	33.03	1,468,000.00	0
Fast Food Restaurant with Drive Thru	16.70	1000sqft	6.40	16,700.00	0
Hotel	122.00	Room	4.00	73,400.00	0
Convenience Market with Gas Pumps	20.00	Pump	3.00	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6	Operational Year	2033		
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage and lot acreages adjusted per site plan.

Construction Phase - Phase timing adjusted per applicant-provided questionnaire.

Grading - Based on applicant provided AQ questionnaire.

Vehicle Trips - Based on project-specific information provided by DKS.

Energy Use - No natural gas usage except restaurants. 11% reduction in Title 24 natural gas usage (moving from 2019 Title 24 assumed in CalEEMod 2020 version to current regulation, Title 24 2022). 59.07 kbu/size/yr Title 24 natural gas adjusted to 52.57 kbtu/size/yr.

Operational Off-Road Equipment - all electric forklifts will be used.

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mobile Land Use Mitigation -

Mobile Commute Mitigation - TMA membership

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	1,800.00
tblConstructionPhase	NumDays	6,200.00	1,800.00
tblConstructionPhase	NumDays	620.00	540.00
tblConstructionPhase	NumDays	440.00	90.00
tblConstructionPhase	NumDays	240.00	90.00
tblEnergyUse	NT24NG	0.93	0.00
tblEnergyUse	NT24NG	5.53	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24NG	4.44	0.00
tblEnergyUse	T24NG	59.07	52.57
tblEnergyUse	T24NG	32.71	0.00
tblEnergyUse	T24NG	12.30	0.00
tblGrading	MaterialImported	0.00	304,000.00
tblLandUse	LandUseSquareFeet	177,144.00	73,400.00
tblLandUse	LandUseSquareFeet	2,823.50	8,100.00
tblLandUse	LotAcreage	151.73	318.60
tblLandUse	LotAcreage	0.38	6.40
tblLandUse	LotAcreage	4.07	4.00
tblLandUse	LotAcreage	0.06	3.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	300.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	121.00
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CC_TL	5.00	1.66

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	CC_TL	5.00	1.66
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CNW_TL	6.50	2.15
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	CW_TL	10.00	3.31
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	65.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	322.50	101.55
tblVehicleTrips	ST_TR	616.12	208.86
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	2.54	1.94
tblVehicleTrips	SU_TR	322.50	101.55
tblVehicleTrips	SU_TR	472.58	208.86
tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	1.24	1.94

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	WD_TR	322.50	101.55
tblVehicleTrips	WD_TR	470.95	208.86
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	3.37	1.94

2.0 Emissions Summary

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1166	1.1849	0.8026	1.6900e-003	0.8541	0.0545	0.9086	0.4363	0.0501	0.4864	0.0000	148.3983	148.3983	0.0467	1.3000e-004	149.6037
2024	0.4511	5.6438	3.9609	0.0138	1.9477	0.1852	2.1329	0.5994	0.1708	0.7702	0.0000	1,278.1858	1,278.1858	0.2520	0.0881	1,310.7479
2025	0.4085	5.0370	3.7848	0.0138	1.8507	0.1580	2.0087	0.5772	0.1457	0.7230	0.0000	1,273.8120	1,273.8120	0.2523	0.0873	1,306.1262
2026	3.5099	6.8058	9.5165	0.0400	3.8050	0.1097	3.9147	0.9043	0.1030	1.0073	0.0000	3,814.9161	3,814.9161	0.1770	0.3082	3,911.1960
2027	6.1411	10.2743	14.4108	0.0645	4.9720	0.1346	5.1067	1.3460	0.1274	1.4734	0.0000	6,201.5214	6,201.5214	0.2146	0.5124	6,359.5756
2028	6.0469	10.0595	13.8708	0.0628	4.9529	0.1322	5.0851	1.3408	0.1251	1.4659	0.0000	6,057.6880	6,057.6880	0.2069	0.4989	6,211.5341
2029	6.0014	9.9385	13.5023	0.0617	4.9719	0.1308	5.1027	1.3459	0.1238	1.4697	0.0000	5,970.3706	5,970.3706	0.2017	0.4903	6,121.5054
2030	5.9232	9.1655	13.1563	0.0610	4.9718	0.0754	5.0472	1.3459	0.0726	1.4185	0.0000	5,911.1760	5,911.1760	0.1385	0.4808	6,057.9023
2031	5.8608	9.0421	12.8510	0.0600	4.9717	0.0738	5.0455	1.3459	0.0711	1.4170	0.0000	5,822.4350	5,822.4350	0.1336	0.4724	5,966.5467
2032	5.8260	8.9718	12.6404	0.0592	4.9907	0.0726	5.0633	1.3510	0.0700	1.4210	0.0000	5,766.5261	5,766.5261	0.1298	0.4669	5,908.9209
2033	2.0321	2.8555	4.0409	0.0189	1.6253	0.0230	1.6483	0.4399	0.0222	0.4621	0.0000	1,844.6678	1,844.6678	0.0408	0.1481	1,889.8085
Maximum	6.1411	10.2743	14.4108	0.0645	4.9907	0.1852	5.1067	1.3510	0.1708	1.4734	0.0000	6,201.5214	6,201.5214	0.2523	0.5124	6,359.5756

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2023	11-30-2023	0.9839	0.9839
2	12-1-2023	2-29-2024	1.3182	1.3182
3	3-1-2024	5-31-2024	1.5267	1.5267
4	6-1-2024	8-31-2024	1.5175	1.5175
5	9-1-2024	11-30-2024	1.5191	1.5191
6	12-1-2024	2-28-2025	1.4045	1.4045
7	3-1-2025	5-31-2025	1.3608	1.3608
8	6-1-2025	8-31-2025	1.3519	1.3519
9	9-1-2025	11-30-2025	1.3548	1.3548
10	12-1-2025	2-28-2026	1.0085	1.0085
11	3-1-2026	5-31-2026	0.3456	0.3456
12	6-1-2026	8-31-2026	3.7873	3.7873
13	9-1-2026	11-30-2026	4.1927	4.1927
14	12-1-2026	2-28-2027	4.1425	4.1425
15	3-1-2027	5-31-2027	4.1190	4.1190
16	6-1-2027	8-31-2027	4.0736	4.0736
17	9-1-2027	11-30-2027	4.1188	4.1188
18	12-1-2027	2-29-2028	4.1207	4.1207
19	3-1-2028	5-31-2028	4.0560	4.0560
20	6-1-2028	8-31-2028	4.0112	4.0112
21	9-1-2028	11-30-2028	4.0557	4.0557
22	12-1-2028	2-28-2029	4.0157	4.0157
23	3-1-2029	5-31-2029	3.9974	3.9974
24	6-1-2029	8-31-2029	3.9532	3.9532
25	9-1-2029	11-30-2029	3.9972	3.9972
26	12-1-2029	2-28-2030	3.8570	3.8570
27	3-1-2030	5-31-2030	3.7820	3.7820
28	6-1-2030	8-31-2030	3.7381	3.7381

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

29	9-1-2030	11-30-2030	3.7838	3.7838
30	12-1-2030	2-28-2031	3.7532	3.7532
31	3-1-2031	5-31-2031	3.7341	3.7341
32	6-1-2031	8-31-2031	3.6905	3.6905
33	9-1-2031	11-30-2031	3.7362	3.7362
34	12-1-2031	2-29-2032	3.7511	3.7511
35	3-1-2032	5-31-2032	3.6922	3.6922
36	6-1-2032	8-31-2032	3.6486	3.6486
37	9-1-2032	11-30-2032	3.6948	3.6948
38	12-1-2032	2-28-2033	3.6733	3.6733
39	3-1-2033	5-31-2033	2.5485	2.5485
		Highest	4.1927	4.1927

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	15,390.5139	15,390.5139	1.4077	0.1731	15,477.2770
Mobile	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.7013	4,983.7013	0.4610	0.3149	5,089.0758
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7936	1,787.5065	1.9861	1.1963	2,193.6541
Total	34.0389	4.1903	32.5408	0.0511	6.2289	0.0475	6.2764	1.6640	0.0450	1.7090	2,259.9406	21,618.2678	23,878.2084	105.2815	1.6843	27,012.1641

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Energy	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	15,390.5139	15,390.5139	1.4077	0.1731	15,477.2770
Mobile	4.5203	3.9198	31.2105	0.0473	5.8295	0.0347	5.8641	1.5572	0.0323	1.5895	0.0000	4,690.6092	4,690.6092	0.4471	0.3042	4,792.4267
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1,716.2277	0.0000	1,716.2277	101.4262	0.0000	4,251.8815
Water						0.0000	0.0000		0.0000	0.0000	543.7129	1,243.7031	1,787.4160	1.9861	1.1963	2,193.5632
Total	33.9681	4.0606	31.4603	0.0481	5.8295	0.0457	5.8752	1.5572	0.0434	1.6006	2,259.9406	21,325.0853	23,585.0259	105.2677	1.6735	26,715.4240

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.21	3.09	3.32	5.79	6.41	3.64	6.39	6.41	3.60	6.34	0.00	1.36	1.23	0.01	0.64	1.10

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2023	1/4/2024	5	90	
2	Grading	Grading	1/5/2024	1/29/2026	5	540	

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Paving	Paving	1/30/2026	6/4/2026	5	90
4	Building Construction	Building Construction	6/5/2026	4/28/2033	5	1800
5	Architectural Coating	Architectural Coating	6/19/2026	5/12/2033	5	1800

Acres of Grading (Site Preparation Phase): 135

Acres of Grading (Grading Phase): 1620

Acres of Paving: 33.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,061,250; Non-Residential Outdoor: 3,353,750; Striped Parking Area: 88,080 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	38,000.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,433.00	1,340.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	687.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8380	143.8380	0.0465	0.0000	145.0010

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8484	0.0000	0.8484	0.4348	0.0000	0.4348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1144	1.1835	0.7845	1.6400e-003		0.0544	0.0544		0.0501	0.0501	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008
Total	0.1144	1.1835	0.7845	1.6400e-003	0.8484	0.0544	0.9029	0.4348	0.0501	0.4848	0.0000	143.8378	143.8378	0.0465	0.0000	145.0008

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027
Total	2.2200e-003	1.3700e-003	0.0180	5.0000e-005	5.6800e-003	3.0000e-005	5.7100e-003	1.5100e-003	3.0000e-005	1.5400e-003	0.0000	4.5603	4.5603	1.4000e-004	1.3000e-004	4.6027

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1077	0.0000	0.1077	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0544	0.0367	8.0000e-005		2.4600e-003	2.4600e-003		2.2600e-003	2.2600e-003	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455
Total	5.3200e-003	0.0544	0.0367	8.0000e-005	0.1077	2.4600e-003	0.1102	0.0276	2.2600e-003	0.0299	0.0000	6.6914	6.6914	2.1600e-003	0.0000	6.7455

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086
Total	1.0000e-004	6.0000e-005	7.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2068	0.2068	1.0000e-005	1.0000e-005	0.2086

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3019	703.3019	0.2275	0.0000	708.9884

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6673	0.0000	1.6673	0.5245	0.0000	0.5245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4151	4.1766	3.5762	8.0100e-003		0.1723	0.1723		0.1585	0.1585	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876
Total	0.4151	4.1766	3.5762	8.0100e-003	1.6673	0.1723	1.8396	0.5245	0.1585	0.6830	0.0000	703.3010	703.3010	0.2275	0.0000	708.9876

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0236	1.4087	0.2912	5.5800e-003	0.1535	0.0104	0.1639	0.0422	9.9600e-003	0.0521	0.0000	553.1643	553.1643	0.0220	0.0877	579.8526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9200e-003	4.0700e-003	0.0560	1.6000e-004	0.0190	1.0000e-004	0.0190	5.0400e-003	9.0000e-005	5.1300e-003	0.0000	14.8214	14.8214	4.4000e-004	4.0000e-004	14.9527
Total	0.0305	1.4128	0.3472	5.7400e-003	0.1724	0.0105	0.1829	0.0472	0.0101	0.0573	0.0000	567.9857	567.9857	0.0224	0.0881	594.8053

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	0.3786	3.6466	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6763	0.0000	1.6763	0.5295	0.0000	0.5295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6465	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	0.3786	3.6465	3.4362	8.1000e-003	1.6763	0.1476	1.8239	0.5295	0.1358	0.6653	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0233	1.3867	0.2956	5.5300e-003	0.1552	0.0103	0.1656	0.0426	9.8800e-003	0.0525	0.0000	547.8748	547.8748	0.0219	0.0869	574.3139
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5700e-003	3.7000e-003	0.0530	1.5000e-004	0.0192	9.0000e-005	0.0193	5.1000e-003	9.0000e-005	5.1800e-003	0.0000	14.6312	14.6312	4.0000e-004	3.8000e-004	14.7550
Total	0.0299	1.3904	0.3486	5.6800e-003	0.1744	0.0104	0.1848	0.0477	9.9700e-003	0.0577	0.0000	562.5060	562.5060	0.0223	0.0873	589.0689

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6943

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9537	0.0000	0.9537	0.1323	0.0000	0.1323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.2934	0.2765	6.5000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942
Total	0.0305	0.2934	0.2765	6.5000e-004	0.9537	0.0119	0.9655	0.1323	0.0109	0.1432	0.0000	57.2315	57.2315	0.0185	0.0000	57.6942

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1085	0.0238	4.4000e-004	0.0125	8.1000e-004	0.0133	3.4300e-003	7.8000e-004	4.2000e-003	0.0000	43.1539	43.1539	1.7300e-003	6.8400e-003	45.2367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.7000e-004	4.0100e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1493	1.1493	3.0000e-005	3.0000e-005	1.1586
Total	2.3300e-003	0.1088	0.0278	4.5000e-004	0.0140	8.2000e-004	0.0149	3.8400e-003	7.9000e-004	4.6200e-003	0.0000	44.3032	44.3032	1.7600e-003	6.8700e-003	46.3953

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0845	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242
Total	1.6000e-003	8.7000e-004	0.0129	4.0000e-005	4.9600e-003	2.0000e-005	4.9800e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	3.6941	3.6941	9.0000e-005	9.0000e-005	3.7242

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9396	173.9396	0.0409	0.0000	174.9618

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616
Total	0.1026	0.9352	1.2064	2.0200e-003		0.0396	0.0396		0.0372	0.0372	0.0000	173.9394	173.9394	0.0409	0.0000	174.9616

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1166	4.6087	1.3697	0.0180	0.5881	0.0246	0.6127	0.1700	0.0235	0.1935	0.0000	1,755.5229	1,755.5229	0.0428	0.2591	1,833.8154
Worker	0.6118	0.3307	4.9214	0.0148	1.8910	8.7600e-003	1.8998	0.5029	8.0700e-003	0.5110	0.0000	1,409.0832	1,409.0832	0.0361	0.0355	1,420.5660
Total	0.7284	4.9394	6.2911	0.0328	2.4791	0.0333	2.5125	0.6729	0.0316	0.7045	0.0000	3,164.6061	3,164.6061	0.0789	0.2947	3,254.3814

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1962	7.8667	2.3420	0.0307	1.0233	0.0418	1.0650	0.2958	0.0400	0.3357	0.0000	2,989.122 2	2,989.122 2	0.0725	0.4421	3,122.668 2
Worker	1.0054	0.5256	8.1106	0.0250	3.2903	0.0144	3.3048	0.8751	0.0133	0.8884	0.0000	2,396.787 5	2,396.787 5	0.0576	0.0586	2,415.689 2
Total	1.2016	8.3923	10.4526	0.0556	4.3136	0.0562	4.3698	1.1709	0.0532	1.2241	0.0000	5,385.909 7	5,385.909 7	0.1301	0.5007	5,538.357 4

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1897	7.7102	2.3000	0.0299	1.0193	0.0407	1.0600	0.2946	0.0390	0.3335	0.0000	2,916.5256	2,916.5256	0.0708	0.4320	3,047.0324
Worker	0.9475	0.4828	7.7031	0.0242	3.2777	0.0135	3.2912	0.8718	0.0124	0.8842	0.0000	2,338.5020	2,338.5020	0.0529	0.0558	2,356.4354
Total	1.1372	8.1929	10.0031	0.0541	4.2970	0.0542	4.3512	1.1664	0.0514	1.2177	0.0000	5,255.0275	5,255.0275	0.1237	0.4878	5,403.4678

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1850	7.6218	2.2800	0.0295	1.0231	0.0400	1.0631	0.2957	0.0383	0.3340	0.0000	2,870.300 1	2,870.300 1	0.0698	0.4258	2,998.919 1
Worker	0.8983	0.4499	7.4053	0.0236	3.2903	0.0127	3.3030	0.8751	0.0117	0.8868	0.0000	2,303.189 4	2,303.189 4	0.0491	0.0537	2,320.430 9
Total	1.0834	8.0717	9.6853	0.0531	4.3134	0.0527	4.3661	1.1708	0.0500	1.2208	0.0000	5,173.489 5	5,173.489 5	0.1189	0.4795	5,319.350 0

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1801	7.5133	2.2570	0.0289	1.0230	0.0392	1.0622	0.2957	0.0375	0.3332	0.0000	2,817.533 3	2,817.533 3	0.0687	0.4185	2,943.957 7
Worker	0.8479	0.4207	7.1295	0.0231	3.2903	0.0119	3.3022	0.8751	0.0109	0.8861	0.0000	2,264.187 7	2,264.187 7	0.0456	0.0519	2,280.789 6
Total	1.0280	7.9341	9.3865	0.0520	4.3133	0.0511	4.3644	1.1708	0.0484	1.2192	0.0000	5,081.721 0	5,081.721 0	0.1143	0.4704	5,224.747 3

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1760	7.4201	2.2411	0.0284	1.0230	0.0385	1.0614	0.2956	0.0368	0.3324	0.0000	2,770.3870	2,770.3870	0.0676	0.4120	2,894.8492
Worker	0.7994	0.3957	6.8884	0.0226	3.2903	0.0111	3.3015	0.8751	0.0102	0.8854	0.0000	2,229.5289	2,229.5289	0.0424	0.0503	2,245.5872
Total	0.9754	7.8157	9.1294	0.0510	4.3133	0.0496	4.3629	1.1708	0.0470	1.2178	0.0000	4,999.9158	4,999.9158	0.1100	0.4623	5,140.4363

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1731	7.3683	2.2393	0.0281	1.0268	0.0380	1.0648	0.2968	0.0363	0.3331	0.0000	2,739.3880	2,739.3880	0.0669	0.4079	2,862.5995
Worker	0.7577	0.3765	6.7069	0.0222	3.3029	0.0105	3.3134	0.8785	9.6300e-003	0.8881	0.0000	2,207.5711	2,207.5711	0.0398	0.0492	2,223.2396
Total	0.9308	7.7449	8.9461	0.0503	4.3298	0.0484	4.3782	1.1752	0.0460	1.2212	0.0000	4,946.9591	4,946.9591	0.1067	0.4571	5,085.8391

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4016	110.4016	4.4300e-003	0.0000	110.5124

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122
Total	0.0550	0.3333	0.6786	1.3000e-003		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	110.4015	110.4015	4.4300e-003	0.0000	110.5122

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0546	2.3407	0.7157	8.8900e-003	0.3292	0.0120	0.3412	0.0951	0.0115	0.1066	0.0000	866.4768	866.4768	0.0212	0.1291	905.4907
Worker	0.2305	0.1154	2.0934	7.0000e-003	1.0590	3.1500e-003	1.0621	0.2817	2.9000e-003	0.2846	0.0000	699.2084	699.2084	0.0120	0.0155	704.1138
Total	0.2851	2.4561	2.8091	0.0159	1.3882	0.0152	1.4033	0.3768	0.0144	0.3912	0.0000	1,565.6852	1,565.6852	0.0332	0.1446	1,609.6045

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8972

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971
Total	2.4459	0.0802	0.1266	2.1000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	17.8728	17.8728	9.7000e-004	0.0000	17.8971

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268
Total	0.1143	0.0618	0.9192	2.7600e-003	0.3532	1.6400e-003	0.3548	0.0939	1.5100e-003	0.0954	0.0000	263.1821	263.1821	6.7400e-003	6.6300e-003	265.3268

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193
Total	0.2012	0.1052	1.6231	4.9900e-003	0.6585	2.8900e-003	0.6613	0.1751	2.6600e-003	0.1778	0.0000	479.6368	479.6368	0.0115	0.0117	483.4193

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	4.5424	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617
Total	0.1896	0.0966	1.5415	4.8400e-003	0.6559	2.7000e-003	0.6586	0.1745	2.4800e-003	0.1769	0.0000	467.9729	467.9729	0.0106	0.0112	471.5617

3.6 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	4.5598	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565
Total	0.1798	0.0900	1.4819	4.7300e-003	0.6585	2.5400e-003	0.6610	0.1751	2.3400e-003	0.1775	0.0000	460.9062	460.9062	9.8200e-003	0.0108	464.3565

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237
Total	0.1697	0.0842	1.4267	4.6200e-003	0.6585	2.3800e-003	0.6608	0.1751	2.1900e-003	0.1773	0.0000	453.1014	453.1014	9.1200e-003	0.0104	456.4237

3.6 Architectural Coating - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
Total	4.5546	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791
Total	0.1600	0.0792	1.3785	4.5200e-003	0.6585	2.2300e-003	0.6607	0.1751	2.0500e-003	0.1772	0.0000	446.1656	446.1656	8.4900e-003	0.0101	449.3791

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
Total	4.5721	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070
Total	0.1516	0.0754	1.3422	4.4500e-003	0.6610	2.0900e-003	0.6631	0.1758	1.9300e-003	0.1777	0.0000	441.7714	441.7714	7.9600e-003	9.8500e-003	444.9070

3.6 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6342					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1500e-003	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124
Total	1.6404	0.0403	0.0845	1.4000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	12.0003	12.0003	4.9000e-004	0.0000	12.0124

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792
Total	0.0516	0.0259	0.4688	1.5700e-003	0.2371	7.1000e-004	0.2379	0.0631	6.5000e-004	0.0637	0.0000	156.5807	156.5807	2.6800e-003	3.4600e-003	157.6792

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Implement Trip Reduction Program

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5203	3.9198	31.2105	0.0473	5.8295	0.0347	5.8641	1.5572	0.0323	1.5895	0.0000	4,690.609 2	4,690.609 2	0.4471	0.3042	4,792.426 7
Unmitigated	4.5910	4.0495	32.2909	0.0502	6.2289	0.0364	6.2653	1.6640	0.0339	1.6979	0.0000	4,983.701 3	4,983.701 3	0.4610	0.3149	5,089.075 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	2,031.00	2,031.00	2031.00	1,305,797	1,228,528
Fast Food Restaurant with Drive Thru	3,487.96	3,487.96	3487.96	2,271,855	2,137,074
Hotel	878.40	878.40	878.40	662,880	622,498
Industrial Park	12,822.04	12,822.04	12822.04	12,588,435	11,761,636
Parking Lot	0.00	0.00	0.00		
Total	19,219.40	19,219.40	19,219.40	16,828,967	15,749,736

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	3.31	1.66	2.15	0.80	80.20	19.00	100	0	0
Fast Food Restaurant with Drive	3.31	1.66	2.15	2.20	78.80	19.00	100	0	0
Hotel	3.31	1.66	2.15	19.40	61.60	19.00	100	0	0
Industrial Park	3.31	1.66	2.15	59.00	28.00	13.00	100	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Fast Food Restaurant with Drive Thru	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Hotel	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Industrial Park	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428
Parking Lot	0.567036	0.055979	0.181238	0.119180	0.019685	0.005252	0.013298	0.009451	0.000749	0.000688	0.024235	0.000780	0.002428

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,238.4704	15,238.4704	1.4047	0.1703	15,324.3300
NaturalGas Mitigated	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470
NaturalGas Unmitigated	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2.84919e+006	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market with Gas Pumps	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2.84919e+006	0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0154	0.1397	0.1173	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.0435	152.0435	2.9100e-003	2.7900e-003	152.9470

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market with Gas Pumps	90882	14.7572	1.3600e-003	1.6000e-004	14.8403
Fast Food Restaurant with Drive Thru	680859	110.5558	0.0102	1.2400e-003	111.1788
Hotel	691428	112.2720	0.0104	1.2500e-003	112.9046
Industrial Park	9.18693e+007	14,917.4561	1.3752	0.1667	15,001.5070
Parking Lot	513800	83.4293	7.6900e-003	9.3000e-004	83.8994
Total		15,238.4704	1.4047	0.1703	15,324.3300

6.0 Area Detail

6.1 Mitigation Measures Area

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Unmitigated	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.1293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	26.2910					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758
Total	29.4325	1.1900e-003	0.1326	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2590	0.2590	6.7000e-004	0.0000	0.2758

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,787,416 0	1.9861	1.1963	2,193.563 2
Unmitigated	1,787,506 5	1.9861	1.1963	2,193.654 1

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.128185	0.3161	2.8000e-004	1.6000e-004	0.3717
Fast Food Restaurant with Drive Thru	5.06901 / 0.323554	6.0784	6.5700e-003	3.9500e-003	7.4191
Hotel	3.09475 / 0.343861	3.7942	4.0200e-003	2.4100e-003	4.6132
Industrial Park	1528.4 / 0	1,777.317 8	1.9752	1.1898	2,181.250 1
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.506 4	1.9861	1.1963	2,193.654 1

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.209144 / 0.102548	0.3015	2.8000e-004	1.6000e-004	0.3571
Fast Food Restaurant with Drive Thru	5.06901 / 0.258843	6.0417	6.5600e-003	3.9500e-003	7.3822
Hotel	3.09475 / 0.275089	3.7551	4.0100e-003	2.4100e-003	4.5739
Industrial Park	1528.4 / 0	1,777.3178	1.9752	1.1898	2,181.2501
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,787.4160	1.9861	1.1963	2,193.5632

8.0 Waste Detail

8.1 Mitigation Measures Waste

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,716.227 7	101.4262	0.0000	4,251.881 5
Unmitigated	1,716.227 7	101.4262	0.0000	4,251.881 5

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.618 5	98.3170	0.0000	4,121.544 5
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.227 7	101.4262	0.0000	4,251.881 5

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	192.37	39.0494	2.3078	0.0000	96.7432
Hotel	66.8	13.5598	0.8014	0.0000	33.5938
Industrial Park	8195.53	1,663.6185	98.3170	0.0000	4,121.5445
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1,716.2277	101.4262	0.0000	4,251.8815

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	121	12.00	300	89	0.20	Electrical

Airport South Industrial Project - Full Buildout of Annexation Area Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

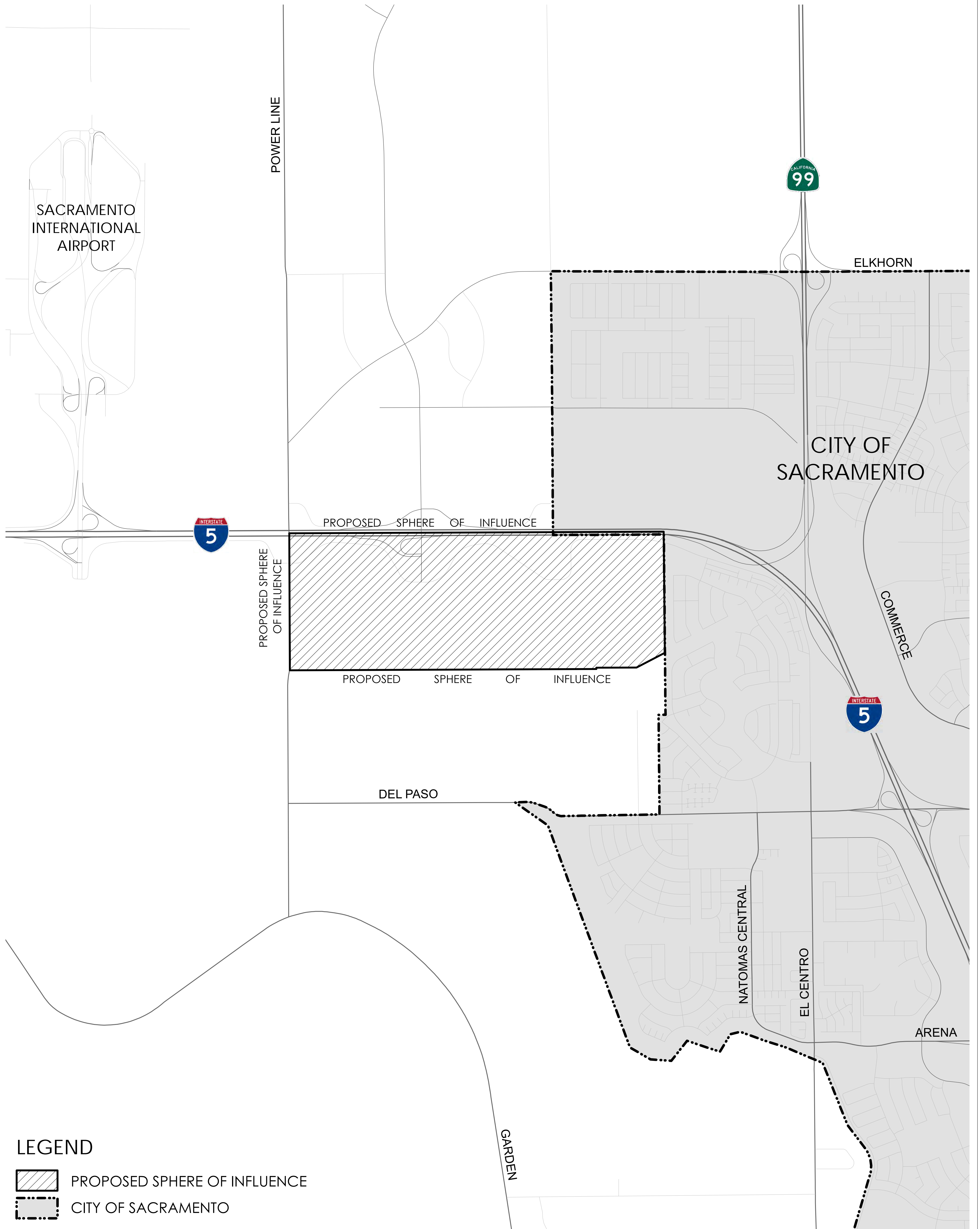
User Defined Equipment

Equipment Type	Number
----------------	--------


11.0 Vegetation

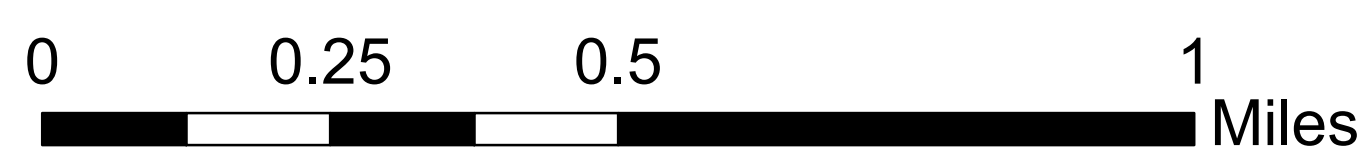
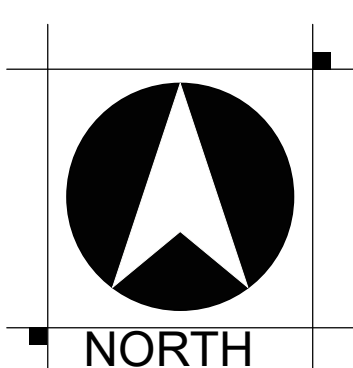
SPHERE OF INFLUENCE AMENDMENT AIRPORT SOUTH INDUSTRIAL

CITY OF SACRAMENTO, CALIFORNIA
JUNE 20, 2022

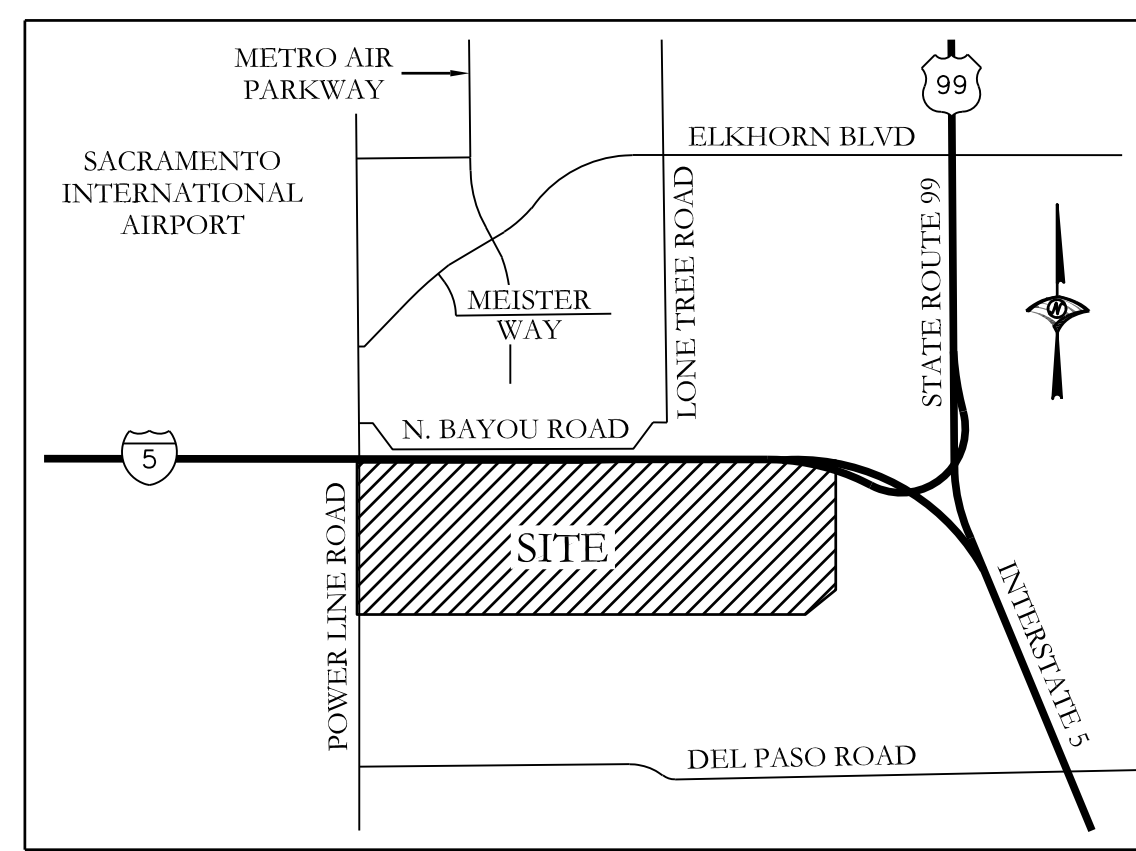
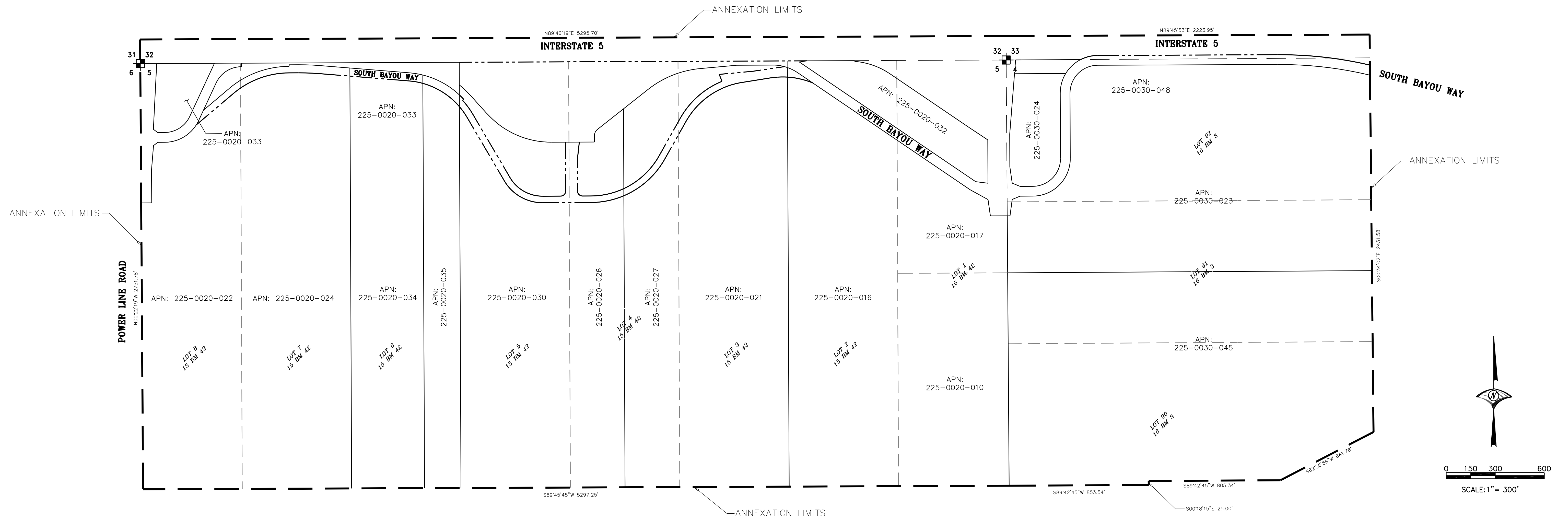


LEGEND

-  PROPOSED SPHERE OF INFLUENCE
-  CITY OF SACRAMENTO



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VICINITY MAP
NOT TO SCALE

NOTES

1. THE TOTAL AREA IS 472.463 ACRES, MORE OR LESS.

ANNEXATION EXHIBIT FOR THE
AIRPORT INDUSTRIAL SOUTH

ALL OF LOTS 1 - 8 PER MAP OF NATOMAS ELKHORN
SUBDIVISION, 15 BM 42 AND LOTS 90 - 92 PER MAP OF NATOMAS
CENTRAL SUBDIVISION, 16 B.M. 3
SACRAMENTO COUNTY RECORDS,
SITUATE WITHIN SECTION 4 AND 5, T. 9 N., R. 4 E., M.D.B. & M.
COUNTY OF SACRAMENTO STATE OF CALIFORNIA

WOOD ROGERS
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JUNE 2022

SHEET 1 OF 1
3909004

ASIP - Operational Emissions and AQMP 35% Calculations

5/30/2024

Using AQMP 4.3 guidance from SMAQMD

CalEEMod baseline (NOX, ROG, PM10) + Offmodel Heavy Duty Truck Emissions (NOX and PM10, no ROG)

	lbs/day			
	ROG	NOX	PM10	PM2.5
Maximum emissions	262.94	786.3497	151.0537	47.8861
Exceeds thresholds				

Set Emission Reduction Target Using Mobile Source Emissions Only from CalEEMod Annual Report + Offmodel

	tons/year		
	ROG	NOX	PM10
Mobile sector	10.18	85.88	22.51
35% target	3.56	30.06	All feasible

ASIP CalEEMod including traffic impact analysis, DKS 6/5/2023, includes all-electric forklifts, no natural gas

	tons/year		
	ROG	NOX	PM10
Baseline	42.53	103.66	23.03
On-model mitigation. Project w/traffic study adjustments, all electric forklifts, TMA, no natural gas except restaurant, design includes off/on site connectivity for pedestrians, 11% title 24 improvements in natural gas usage for restaurants (2019-2022 code)	33.97	79.25	6.77
Difference (mitigation achieved)	8.56	24.41	16.26
35% target	3.56	30.06	All feasible

On-model mitigation summary	Achieved	Did not
Remaining tons/year	ROG plus extra	achieve NOX
	-5.00	5.65
NOx Reduction Credit for CalGreen Tier 2 EV Charging Requirements (Based on the maximum allowable reduction credit for EV chargers [11.9%] according to CalEEMod Measure T-14 [see attached])		-10.22
Off-Model Mitigation - 4.5% of heavy duty truck trips are ZEV		-3.40
Excess emission reductions	5.00	7.97

T-14. Provide Electric Vehicle Charging Infrastructure



GHG Mitigation Potential



Up to 11.9% of GHG emissions from vehicles accessing the commercial or multifamily housing building

Co-Benefits (icon key on pg. 34)



Climate Resilience

Providing electric vehicle charging infrastructure increases fuel redundancy for electric vehicles even if an extreme weather event disrupts other fuel sources. Electric vehicles could also provide benefits to buildings and the grid, such as emergency backup, energy reserves, and demand response.

Health and Equity Considerations

Differential costs of PHEVs compared to conventional vehicles are decreasing over time, but at present are more expensive, which means this measure could disproportionately benefit those of greater economic means. As costs come into parity over time, this will be less of an issue. Employer, electricity provider, and state incentives for PHEV purchase could help address near-term disparities.

Measure Description

Install onsite electric vehicle chargers in an amount beyond what is required by the 2019 California Green Building Standards (CALGreen) at buildings with designated parking areas (e.g., commercial, educational, retail, multifamily). This will enable drivers of PHEVs to drive a larger share of miles in electric mode (eVMT), as opposed to gasoline-powered mode, thereby displacing GHG emissions from gasoline consumption with a lesser amount of indirect emissions from electricity. Most PHEVs owners charge their vehicles at home overnight. When making trips during the day, the vehicle will switch to gasoline mode if/when it reaches its maximum all-electric range.

Subsector

Parking or Road Pricing/Management

Locational Context

Urban, suburban, rural

Scale of Application

Project/Site

Implementation Requirements

Parking at the chargers must be limited to electric vehicles.

Cost Considerations

The primary costs associated with electric vehicle charging infrastructure include the capital costs of purchasing and installing charging stations, electricity costs from use of stations, and maintenance costs of keeping the charging stations in working order. Costs initially fall to the station owners, either municipalities or private owners, but can be passed along to station users with usage fees. Depending on station placement and charging times required for PHEVs, businesses near charging stations can derive benefits from patronage of station users.

Expanded Mitigation Options

In addition to increasing the percentage of electric miles for PHEVs, the increased availability of chargers from implementation of this measure could mitigate consumer "range anxiety" concerns and increase the adoption and use of battery electric vehicles (BEVs), but this potential effect is not included in the calculations as a conservative assumption. Expanded mitigation could include quantification of the effect of this measure on BEV use.





GHG Reduction Formula

$$A = \frac{B \times D \times (F - E) \times (G - (H \times I \times K \times L))}{-C \times J}$$

GHG Calculation Variables

ID	Variable	Value	Unit	Source
Output				
A	Percent reduction in GHG emissions from vehicles accessing the office building or housing	0–11.9	%	calculated
User Inputs				
B	Number of chargers installed at site	[]	integer	user input
C	Total vehicles accessing the site per day	[]	integer	user input
Constants, Assumptions, and Available Defaults				
D	Average number of PHEVs served per day per charger installed	2	integer	CARB 2019
E	Percent of PHEV miles in electric mode without measure	46	%	CARB 2020a
F	Percent of PHEV miles in electric mode with measure	80	%	CARB 2017
G	Average emission factor of PHEV in gasoline mode	205.1	g CO ₂ e per mile	CARB 2020a; U.S. DOE 2021
H	Energy efficiency of PHEV in electric mode	0.327	kilowatt hours (kWh) per mile	CARB 2020b; U.S. DOE 2021
I	Carbon intensity of local electricity provider	Tables E-4.3 and E-4.4	lb CO ₂ e per megawatt hour (MWh)	CA Utilities 2021
J	Average emission factor of non-electric vehicles accessing the site	307.5	g CO ₂ e per mile	CARB 2020a
K	conversion from lb to g	454	g per lb	conversion
L	Conversion from kWh to MWh	0.001	MWh per kWh	conversion

Further explanation of key variables:

- (D) – The average number of PHEVs served per day per charger installed is 2 vehicles (CARB 2019). If the user can provide a project-specific value, they should replace the default in the GHG reduction formula.
- (E) - Based on the EMFAC2017 model (v1.0.3), 46 percent of miles traveled by PHEVs in California are eVMT, and 54 percent are in gasoline mode (CARB 2020a).



- (F) – A review of EV user surveys and analytics included in the CARB’s *Advanced Clean Cars Mid-Term Report* suggest that PHEV owners can reach 80 percent eVMT with access to adequate supportive charging infrastructure (CARB 2017).
- (G) – As described for (J), the average GHG emission factor for gasoline vehicles is 307.5 grams of CO_{2e} per mile.
- The fuel efficiency of a PHEV in gasoline mode is calculated as 66.7 percent of the fuel consumption rate of a gasoline vehicle, based on the assumption that a gasoline hybrid vehicle has 50 percent higher fuel economy (miles per gal [mpg]) than a comparable gasoline vehicle, based on a comparison of the gasoline and hybrid Toyota Camry and Corolla models (U.S. DOE 2021). This percentage is applied to the average GHG emission factor for gasoline vehicles to determine the average emission factor for PHEVs in gasoline mode as (66.7% × 307.5 g CO_{2e} per mile). If the user can provide a project-specific value by running EMFAC based on the future year of a project, they should replace the default in the GHG reduction formula.
- (H) – Scaled from a light-duty automobile gasoline equivalent fuel economy 30.3 mpg (CARB 2020a), an energy efficiency ratio (EER) of 2.5 (CARB 2020b), and an assumption of 33.7 kWh electricity per gallon of gasoline (U.S. DOE 2021).
- (I) – GHG intensity factors for major California electricity providers are provided in Tables E-4.3 and E-4.4 in Appendix C. If the project study area is not serviced by a listed electricity provider, or the user is able to provide a project-specific value (i.e., for the future year not referenced in Appendix C), the user should replace the default in the GHG calculation formula. If the electricity provider is not known, the user may elect to use the statewide grid average carbon intensity.
- (J) – The average GHG emission factor for non-electric vehicles accessing the site was calculated in terms of CO_{2e} per mile using EMFAC2017 (v1.0.3). The model was run for a 2020 statewide average of LDA, LDT1, and LDT2 vehicles using diesel and gasoline fuel. The running emission factors for CO₂, CH₄, and N₂O (CARB 2020a) were multiplied by the corresponding 100-year GWP values from the IPCC’s Fourth Assessment Report (IPCC 2007). If the user can provide a project-specific value (i.e., for a future year and project location), the user should run EMFAC to replace the default in the GHG reduction formula.

GHG Calculation Caps or Maximums

Measure Maximum

(A_{max}) The percent reduction in GHG emissions (A) is capped at 11.9 percent, which is based on the following assumptions used to generate a maximum scenario:

- (B) – number of chargers installed = 20. CALGreen provides a non-residential voluntary Tier 2 measure that requires projects with 201 or more parking spaces to allocate 10 percent of total parking spaces for “EV Capable” parking spaces (or 20 parking spaces) (CBSC 2019). Note that EV Capable parking spaces do not actually have EV chargers installed, though they do have electrical panel capacity, a dedicated branch circuit, and a raceway to the EV parking spot to support future installation of charging stations. Therefore, using the number of EV Capable parking spaces as a proxy for EV chargers as a high-end estimate is conservative.



- (C) – total vehicles accessing the site = 200. Per the CALGreen voluntary measure, the number of total parking spaces that correspond with 20 “EV Capable” parking spaces is 201.
- (D) – PHEVs served per day per charger installed = 7. This value is the max (D_{max}). This assumes that all PHEV drivers would coordinate sharing of the limited number of chargers at the site. Value is based on data from the National Renewable Energy Laboratory (CARB 2019).
- (I) – carbon intensity of local electricity provider = 0 lb CO_{2e} per MWh. This assumes that the local electricity provider is powered 100 percent by renewables and thus has a carbon intensity of zero.

Subsector Maximum

($\sum A_{max_{T-14 \text{ through } T-16}} \leq 35\%$) This measure is in the Parking or Road Pricing/Management subsector. This subcategory includes Measures T-14 through T-16. The VMT reduction from the combined implementation of all measures within this subsector is capped at 35 percent.

Example GHG Reduction Quantification

The user will install electric vehicle chargers at their proposed office or multifamily housing development, which will enable employees or residents with PHEVs to drive a larger share of miles in electric mode, as opposed to gasoline-powered mode, thereby displacing GHG emissions from gasoline consumption with a lesser amount of indirect emissions from indirect electricity. In this example, 20 chargers (B) will be installed at a workplace with 200 daily employee vehicles accessing the site (C). The electricity provider for the project area is the Sacramento Municipal Utility District (SMUD) and the analysis year is 2022. The carbon intensity of electricity is therefore 344 lb CO_{2e} per MWh (I). The GHG impact is calculated as a 3.4 percent reduction from the total emissions from vehicles accessing the site.

A =

$$\frac{20 \times 2 \frac{\text{PHEVs}}{\text{charger} \cdot \text{day}} \times (80\% - 46\%) \times (205.1 \frac{\text{g CO}_2\text{e}}{\text{miles}} - (0.327 \frac{\text{kWh}}{\text{mile}} \times 344 \frac{\text{lb CO}_2\text{e}}{\text{MWh}} \times 454 \frac{\text{g}}{\text{lb}} \times 0.001 \frac{\text{MWh}}{\text{kWh}}))}{-200 \text{ vehicles} \times 307.5 \frac{\text{g CO}_2\text{e}}{\text{miles}}} = 3.4\%$$

Quantified Co-Benefits

While the measure will achieve fuel savings, it will also increase electricity consumption. This section defines the methods for quantifying Improved Local Air Quality and fuel savings, as well as increased electricity consumption.



Improved Local Air Quality

Local criteria pollutants will be reduced by the reduction in fossil fuel combustion. The percent reduction in criteria pollutants can be calculated using the GHG reduction formula. Electricity supplied by statewide fossil-fueled or bioenergy power plants will generate criteria pollutants. However, because these power plants are located throughout the state, electricity consumption from vehicles charging will not generate localized criteria pollutant emissions. Consequently, for the quantification



of criteria pollutant emission reductions, either the electricity portion of the equation can be removed, or the electricity intensity (I) can be set to zero.



Fuel Savings (Increased Electricity)

The percent reduction in vehicle fuel consumption would be the same as the percent reduction in criteria pollutant emissions. The percent increase in electricity use (M) from this measure can be calculated as follows.

Electricity Use Increase Formula

$$M = \frac{B \times D \times (F - E) \times J \times N \times O}{-C \times P}$$

Electricity Use Increase Calculation Variables

ID	Variable	Value	Unit	Source
Output				
M	Increase in electricity from PHEVs	[]	%	calculated
User Inputs				
N	Existing electricity consumption of project/site	[]	kWh per year	user input
O	Days per year with vehicles accessing the site	260–365	days per year	user input
P	Average annual VMT of vehicles accessing the site	[]	miles per day per vehicle	user input
Constants, Assumptions, and Available Defaults				
None				

Further explanation of key variables:

- (N) – The user should take care to properly quantify building electricity using accepted methodologies (such as CalEEMod).
- (O) – If the proposed development is a workplace in which employees access the site an average of 5 days per week, the user should input 260 workdays. If the development is multifamily dwelling, the user should input 365 days.
- Please refer to the GHG Calculation Variables table above for definitions of variables that have been previously defined.

Sources

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APPENDIX E

DRAFT Biological Resources Assessment
Airport South Industrial Park
Sacramento County, California



Prepared For: Raney Planning & Management, Inc.
1501 Sports Drive, Suite A
Sacramento, CA 95834

Report Date: January 2023



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Table of Contents

1	Introduction.....	1
1.1	Project Location.....	1
1.2	Project Description	1
1.3	Definitions	1
2	Regulatory Setting	5
2.1	Federal.....	5
2.1.1	Federal Endangered Species Act	5
2.1.2	Migratory Bird Treaty Act.....	6
2.1.3	Clean Water Act of the United States	6
2.2	State of California	7
2.2.1	California Environmental Quality Act	7
2.2.2	California Endangered Species Act	7
2.2.3	California Fish and Game Code.....	8
2.2.4	California Native Plant Protection Act.....	8
2.2.5	Porter-Cologne Water Quality Control Act.....	9
2.2.6	State Wetland Definition and Procedures.....	9
2.3	Habitat Conservation Plans	10
2.4	Local Policies and Ordinances	11
2.4.1	City of Sacramento General Plan.....	11
2.4.2	City of Sacramento Code Chapter 12.56: Tree Planting, Maintenance, and Conservation	12
3	Methods	13
3.1	Desktop Review	13
3.1.1	Biological Setting	13
3.1.2	Special Status Species & Habitats.....	13
3.1.3	Occurrence Potential.....	14
3.2	Field Surveys.....	15
3.3	Taxonomy and Nomenclature	16
4	Results	17
4.1	Biological Setting	17
4.2	Soils.....	17



4.3	Aquatic Resources	19
4.3.1	Project Site.....	19
4.3.2	Annexation Area	20
4.4	Habitats and Vegetation Communities	24
4.4.1	Extant Vegetation Communities.....	24
4.4.2	Sensitive Vegetation Communities.....	27
4.4.3	Communities in the Annexation Area	27
4.5	Plants	29
4.5.1	Plant Diversity.....	29
4.5.2	Special Status Plants	29
4.6	Wildlife.....	36
4.6.1	Wildlife Diversity	36
4.6.2	Special Status Wildlife	36
4.7	Other Considerations	52
4.7.1	Wildlife Movement.....	52
4.7.2	Nesting Birds.....	53
4.7.3	Bird Impact Risk and the Sacramento International Airport	53
5	Effects and Minimization Measures	55
5.1	Grading Impacts and Avoidance.....	55
5.2	Project Effects on Candidate, Sensitive, or Special Status Species	55
5.2.1	Special Status Species with No Potential to Occur in the Biological Study Area.....	55
5.2.2	Special Status Species with Low Potential to Occur in the Biological Study Area.....	57
5.2.3	Special Status Species with Moderate Potential to Occur in the Biological Study Area	58
5.2.4	Special Status Species with High Potential to Occur in the Biological Study Area.....	59
5.2.5	Special Status Species Present in the Biological Study Area	59
5.3	Project Effects on Riparian Habitat or Other Sensitive Natural Community.....	60
5.4	Project Effects on State or Federally Protected Wetlands	60
5.5	Project Effects on Wildlife Movement and Nursery Sites	61
5.6	Project Effects on the Provisions of an Adopted Habitat Conservation Plan.....	62
5.7	Project Effects on Local Policies or Ordinances Protecting Biological Resources	62
6	Literature Cited.....	63



List of Tables

Table 1. Survey Summary Table	15
Table 2. Soil Series within the Biological Study Area.....	17
Table 3. Aquatic Features Observed in the Study Area.....	19
Table 4. Vegetation Community Summary.	24

List of Exhibits

Exhibit 1. Project Site and Vicinity Map.....	3
Exhibit 2. Area Reference	4
Exhibit 3. Soils.....	18
Exhibit 4. Aquatic Resources Delineation.....	22
Exhibit 5. National Wetlands Inventory Within Annexation Area.....	23
Exhibit 6. Vegetation and Land Cover	28

Appendices

- A. Floral & Faunal Compendia
- B. Special Status Biological Resource Summary
- C. Site Photographs
- D. NRCS Soil Resource Report



1 Introduction

Bargas Environmental Consulting, LLC (Bargas) has prepared this Biological Resources Assessment (hereafter, **Assessment**) on behalf of Raney Planning & Management, Inc. The Airport South Industrial Park (**Project**) proposes to develop an industrial park on approximately 340 acres of agricultural land.

1.1 Project Location

The Project site is 340 acres in size and located in unincorporated Sacramento County, south of the Sacramento International Airport and west of the community of North Natomas and approximately 6.9 miles northwest of downtown Sacramento, California (**Exhibit 1**). The Project site is bounded by Powerline Road on the west, Interstate 5 on the north, a fire break along Lanfranco Circle on the east, and the West Drainage Canal on the south.

Lands within the Project site are mostly fallowed agricultural fields with some undeveloped land present within and adjacent to road and highway rights-of-way within the northern boundary. Existing Sacramento County General Plan Land Use designations include Agricultural Cropland within the Project site and to the south and west, with Low Density Residential to the east and undeveloped/vacant parcels within the Metro Air Park Special Planning Area to the north of the Project and Interstate 5.

1.2 Project Description

The proposed Project would include the development of an industrial park within an approximately 340-acre portion of the project site, located immediately south of Bayou Way. The industrial park would allow for construction of up to 6,610,000 square feet (sf) of industrial uses, as well as approximately 80,940 sf of retail/highway commercial uses, including approximately 60,600 sf of hotel/hospitality, on approximately 13.4 acres of the overall site. Parcels 6A through 6C and 7A through 7C are proposed retail/highway commercial uses generally situated south of the intersection of I-5 and Metro Air Parkway. Parcels 1 through 4, all planned for industrial use, generally surrounding the proposed retail/highway commercial uses; Parcel 5, the remaining proposed industrial use, would be located in the northeast corner of the site. The proposed Project would require approval of the following entitlements: Sacramento County LAFCo approval of a Sphere of Influence Amendment (including a related Municipal Services Review) and Reorganization (annexation and related detachments); and City of Sacramento approval of a Prezone, General Plan Amendment, Tentative Master Parcel Map, Development Agreement and Planned Unit Development.

1.3 Definitions

This report will use the following definitions for areas referred to herein:

- **Project site:** The Project site is defined as the 340 acres being analyzed for Project entitlements.
- **Annexation Area:** The Annexation Area is defined as the 475 acres proposed for annexation by the City of Sacramento and is inclusive of the Project Area.
- **Biological Study Area:** The Biological Study Area is defined as the Project site and a 250-foot buffer. This is the area within which biological resources were fully analyzed.



- **Regional Study Area:** The Regional Study Area is defined as the Project site and a 5-mile buffer. The Regional Study Area was used as the basis for determining special status biological resource records for consideration in this report.

A map depicting these areas is provided as **Exhibit 2**.



Exhibit 1. Project Site and Vicinity Map



Exhibit 2. Area Reference



2 Regulatory Setting

2.1 Federal

2.1.1 Federal Endangered Species Act

The Federal Endangered Species Act (FESA) is the federal government's regulations protecting rare and declining plant and wildlife species. FESA is jointly implemented by the United States Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS, marine resources only). FESA protects species using the following status designations:

- A federally **endangered** species is a species of invertebrate, plant, or wildlife formally listed by the USFWS under FESA as facing extinction throughout all or a significant portion of its geographic range.
- A federally **threatened** species is one formally listed by the USFWS as likely to become endangered within the foreseeable future throughout all or a significant portion of its range.
- A **proposed** threatened or endangered species is one officially proposed by the USFWS for addition to the federal threatened or endangered species lists.
- **Candidate** species are "plants and animals for which the USFWS has sufficient information on their biological status and threats to propose them as endangered or threatened under FESA, but for which development of a proposed listing regulation is precluded by other higher priority listing activities"(USFWS 2017).

"Take" of a federally endangered or threatened species or its habitat is prohibited by federal law without a special permit. The term "take," under FESA, means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in such conduct. "Harm" is defined by the USFWS to encompass "an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering" (50 CFR § 17.3).

Section 10(a)(1)(B) of the FESA allows for take of a threatened or endangered species incidental to development activities once a Habitat Conservation Plan (HCP) has been prepared to the satisfaction of the USFWS and a Section 10(a) incidental take permit has been issued to an applicant. For federal projects (including those involving federal funding), Section 7 of the FESA allows for consultation between the affected agency and the USFWS to determine what measures may be necessary to compensate for the incidental take of a listed species. A federal project is any project that is proposed by a federal agency or is at least partially funded or authorized by a federal agency. Additionally, if the listed species or its habitat occurs in a portion of the project subject to federal jurisdiction (such as Waters of the United States by the United States Army Corps of Engineers under Section 404 of the Clean Water Act), then consultation under Section 7 of the FESA is usually permissible and may be required.

FESA also requires the USFWS to consider whether there are areas of habitat essential to conservation for each listed species. **Critical habitat** designations protect these areas, including habitat that is currently unoccupied but may be essential to the recovery of a species. An area is designated as critical habitat after the USFWS publishes a proposed Federal regulation in the Federal Register and then receives and considers public comments on the proposal. The final boundaries of critical habitat are officially designated when published in the Federal Register.



2.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act of 1918 (MBTA) is a federal law governing the taking, killing, possession, transportation, and importation of various birds, their eggs, parts, and nests. The take of any number of a bird species listed as protected on any one of four treaty lists is governed by the MBTA's regulation of taking migratory birds for educational, scientific, and recreational purposes and requiring harvest to be limited to levels that prevent over utilization. The MBTA also prohibits taking, possession, import, export, transport, selling, purchase, barter, or offering for sale, purchase or barter, certain bird species, their eggs, parts, and nests, except as authorized under a valid permit (50 CFR 21.11).

2.1.3 Clean Water Act of the United States

The regulatory setting with regards to aquatic resources is framed by current enabling legislation and case law. Under Section 404 of the Clean Water Act (CWA), the US Army Corps of Engineers (USACE) regulates the discharge of dredged and fill materials into "waters of the U.S." Jurisdictional waters of the U.S. include "territorial seas, and waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters which are subject to the ebb and flow of the tide; tributaries; lakes and ponds, and impoundments of jurisdictional waters; and adjacent wetlands" (33 Code of Federal Regulations [CFR] § 328.3). Certain waters of the U.S. are considered "special aquatic sites" because they are generally recognized as having ecological value; such sites include sanctuaries and refuges, wetlands, mudflats, vegetated shallows, and riffle and pool complexes (40 CFR § 230). Special aquatic sites are defined by the U.S. Environmental Protection Agency (USEPA) and may be afforded additional consideration in a project's permit process. The USACE also regulates navigable waters under Section 10 of the Rivers and Harbors Act of 1899. Navigable waters are defined as "... those waters of the U.S. that... are presently used, or have been used in the past, or may be susceptible to use to transport interstate or foreign commerce" (33 CFR § 322.2). Projects that place fill in jurisdictional wetlands and non-wetland waters of the U.S. require a permit from the USACE under Section 404 of the CWA. The USACE issues nationwide permits for specific types of activities with minimal individual or cumulative adverse environmental impacts. Individual permits are required for large and/or complex projects or projects that exceed the impact threshold for nationwide permits. Recent federal rulemaking has modified how the USACE defines certain waters of the U.S. The most pertinent rules are summarized below.

The USEPA published a revised definition of "waters of the United States" on December 7, 2021 in response to President Biden's Executive Order 13990 (86 Federal Register 7037) and after *Pascua Yaqui Tribe v. EPA* in which the U.S. District Court of the District of Arizona "vacated and remanded" the Navigable Waters Protection Rule (86 Federal Register 69372). The proposed revision has not been finalized at the time of this report, but since the district court vacated the Navigable Water Protection Rule on August 30, 2021, the agencies have halted implementing the Navigable Waters Protection Rule and have interpreted the definition that is consistent with pre-2015 regulations and the Supreme Court cases of *Rapanos vs. United States* and *Carabell vs. United States* (USEPA 2008), meaning the USACE will assert jurisdiction over traditional navigable waters (TNW) and the following types of features determined to have "significant nexus" to a TNW:

1. wetlands adjacent to TNWs
2. non-navigable tributaries of TNWs that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally
3. wetlands that directly abut non-navigable tributaries of TNWs



2.2 State of California

2.2.1 California Environmental Quality Act

CEQA is a public disclosure process codified by California Public Resources Code 21000, requiring decision-makers to analyze the environmental impacts of a project, disclose those impacts to the public, and mitigate environmental impacts to the extent feasible. The state or local lead agency provides an evaluation of project effects on biological resources; determining the significance of those effects is guided by Appendix G of the CEQA guidelines. These evaluations must consider direct effects on a biological resource within the project site itself, indirect effects on adjacent resources, and cumulative effects within a larger area or region. Effects can be locally important but not significant according to CEQA if they would not substantially affect the regional population of the biological resource. Significant adverse impacts on biological resources would include the following:

- Substantial adverse effects on any species identified as candidate, sensitive, or special status in local or regional plans, policies, or regulations or by the CDFW or the USFWS (these effects could be either direct or via habitat modification);
- Substantial adverse impacts to species designated by the CDFW as Species of Special Concern (SSC);
- Substantial adverse effects on riparian habitat or other sensitive habitat identified in local or regional plans, policies, or regulations or by CDFW and USFWS;
- Substantial adverse effects on federally protected wetlands defined under Section 404 of the CWA (these effects include direct removal, filling, or hydrologic interruption of marshes, vernal pools, coastal wetlands, or other wetland types);
- Substantial interference with movements of native resident or migratory fish or wildlife species population, or with use of native wildlife nursery sites;
- Conflicts with local policies or ordinances protecting biological resources (e.g., tree preservation policies); and;
- Conflict with provisions of an adopted HCP, NCCP, or another approved local, regional, or state habitat conservation plan.

2.2.2 California Endangered Species Act

The California Endangered Species Act (CESA) prohibits the take of state-listed threatened and endangered species. Under CESA, state agencies are required to consult with CDFW when preparing CEQA documents. Under CESA, CDFW is responsible for maintaining a list of rare, threatened, and endangered species designated under state law (California Fish and Game Code § 2070-2079). CDFW also maintains lists of candidate species, SSC, and fully-protected species. Candidate species are those taxa that have been formally recognized by the CDFW and are under review for addition to the state threatened and endangered list. Species of special concern are those taxa that are considered sensitive, and this list serves as a “watch list.” The CDFW can authorize “take” if an incidental take permit is issued by the Secretary of the Interior or Commerce in compliance with FESA, or if the director of the CDFW issues a permit under Section 2080 in those cases where it is demonstrated that the impacts are minimized and mitigated.



2.2.3 California Fish and Game Code

Section 1600 et seq. – Lake and Streambed Alteration Agreement. Section 1600 provides provisions for protecting riparian systems, including the bed, banks, and riparian habitat of lakes, seasonal and perennial streams, and rivers. This section requires an applicant to notify CDFW and obtain a Lake and Streambed Alteration Agreement (LSAA) if their project would divert or obstruct the natural flow of any river, stream, or lake; change the bed, channel, or bank of any river, stream, or lake; use material from any river, stream, or lake; or deposit or dispose of material into any river, stream, or lake.

Section 2050 et seq. – California Endangered Species Act. CESA establishes the policy of the state to conserve, protect, restore, and enhance threatened or endangered species and their habitats. CESA is administered by CDFW and prohibits the take of any species that the California Fish and Game Commission (CFGC) determines to be a threatened or endangered species. CESA also mandates that “state agencies should not approve projects as proposed which would jeopardize the continued existence of any endangered species or threatened species” if reasonable and prudent alternatives are available that would avoid jeopardy. CDFW administers CESA and authorizes take through California Fish and Game Code Section 2081 Incidental Take Permits or through Section 2080.1 (for species also listed under FESA, consistency determination with a USFWS Biological Opinion).

Section 3511 – Fully Protected Species. The legislature of the State of California designated certain species as “fully protected” prior to the creation of CESA. Section 3511 states that “fully protected” birds or parts thereof may not be taken or possessed at any time. Lists of fully protected species were initially developed to provide protection to those animals that were rare or faced possible extinction and included fish, mammals, amphibians and reptiles, and birds. Most fully protected species have since been listed as threatened or endangered under CESA and/or FESA.

Sections 3503, 3503.5, 3505, 3513 — Birds. These California Fish and Game Code sections protect all birds, birds of prey, and all nongame birds, as well as their eggs and nests, for species that are not already listed as fully protected and that occur naturally within the state. Sections 3503 and 3503.5 of the CFGC stipulate the following regarding eggs and nests: Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by CFGC or any regulation made pursuant thereto; and Section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by CFGC or any regulation adopted pursuant thereto. Section 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

2.2.4 California Native Plant Protection Act

The California Native Plant Protection Act of 1977 (California Fish and Game Code § 1900-1913) affords the CDFW Commission the authority to designate native plants as endangered or rare and protect them from “take.” The California Native Plant Society (CNPS) maintains a list of sensitive plant species native to California and assigns each a rank in the California Rare Plant Rank (CRPR) system defined below:

- List 1A: Plants presumed extirpated in California and either rare or extinct elsewhere;
- List 1B: Plants are rare, threatened, or endangered in California and elsewhere;



- List 2A: Plants presumed extirpated in California, but more common elsewhere;
- List 2B: Plant are rare, threatened, or endangered in California, but more common elsewhere;
- List 3: Plants about which more information is needed (on a review list);
- List 4: Plants of limited distribution (on a watch list).

This list is further defined as described below:

- 0.1: Seriously threatened in California, meaning there is a high degree (over 80% of occurrences) and immediacy of threat;
- 0.2: Moderately threatened in California, meaning there is a moderate degree (20-80% of occurrences) and immediacy of threat;
- 0.3: Not very threatened in California, meaning there is a low degree (less than 20% of occurrences) and immediacy of threat.

All plants on Lists 1 and 2 meet the standards for state listing under the CEQA Guidelines (14 CCR § 15380). CNPS recommends that plants on Lists 3 and 4 be evaluated for consideration under CEQA.

2.2.5 Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act of 1969 established the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCB), collectively referred to as the Water Boards, and authorized them to provide oversight for water rights and water quality. It uses the National Pollutant Discharge Elimination System (NPDES) to monitor point source discharges into the waters of the State to prevent water quality degradation. It also protects wetlands, surface waters, and groundwater from both point and nonpoint sources of pollution.

2.2.6 State Wetland Definition and Procedures

The SWRCB adopted the State Wetland Definition and Procedures for Discharges or Fill Material to Waters of the State in 2019 and completed revisions to this set of procedures in 2021 (SWRCB 2021). Four major elements are included in these procedures as described below, in addition to procedures for the submittal, review and approval of CWA Section 401 permits not described in this report.

1. Wetland definition:

An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration such saturation is sufficient to cause anaerobic conditions in the upper substrate; and 3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

2. Framework for determining waters of the state:

Waters of the state are broadly defined by the Porter-Cologne Water Quality Control Act as “any surface water or groundwater, including saline waters, within the boundaries of the state.” The 2021 procedures expand upon this definition to clearly include natural wetlands, wetlands created by modification of a surface water of the state, and artificial wetlands meeting specific criteria.



The criteria for an artificial wetland include wetlands created for agency-approved compensatory mitigation; those identified in a water quality control plan; and those greater than or equal to one acre in size unless they are constructed and maintained for wastewater treatment or disposal, sediment settling, stormwater permitting program pollutant or runoff management, surface water treatment, agricultural crop irrigation or stock watering, fire suppression, industrial processing and cooling, active surface mining, log storage, recycled water management, maximizing groundwater recharge, and rice paddies.

3. Wetland delineation procedures:

USACE-defined procedures for aquatic resources delineation (USACE 1987; USACE 2008, USACE 2010) used to assess the presence or absence of hydrophytic vegetation, hydric soils, and wetland hydrology are required by the SWRCB to delineate waters of the state, with one modification being that “the lack of vegetation does not preclude the determination of such an area that meets the definition of wetland.”

2.3 Habitat Conservation Plans

An HCP is a planning document required as part of an application for an incidental take permit under Section 10(a)(1)(B) of FESA. Such permits are issued by the USFWS when take is not the intention of, and is incidental to, otherwise legal activities. An application for an incidental take permit under Section 10 of FESA must be accompanied by an HCP. HCPs describe the impacts of the proposed action that may result in take of federally listed species; how those impacts will be minimized or mitigated; and how the HCP is to be funded. HCPs can apply to both listed and non-listed species, including those that are candidates or have been proposed for listing. Conserving species before they are in danger of extinction or are likely to become so can also provide early benefits and prevent the need for listing.

The Project site and Annexation Area are within the Natomas Basin and the boundaries of the Natomas Basin Habitat Conservation Plan (NBHCP). The NBHCP (City of Sacramento et al. 2003) provides for the conservation of 22 wildlife and plant species within the Natomas Basin. The NBHCP establishes a multispecies conservation program to minimize and mitigate the expected loss of habitat values and incidental take of Covered Species that could result from urban development, operation and maintenance of irrigation and drainage systems, and certain activities associated with The Natomas Basin Conservancy (TNBC) management of its system of reserves established under the NBHCP. The NBHCP applies to the 53,537-acre area interior to the toe of levees surrounding the Natomas Basin, located in the northern portion of Sacramento County and the southern portion of Sutter County. The Basin contains incorporated and unincorporated areas within Sacramento County and Sutter County.

Management of the NBHCP is heavily focused on the two most widely distributed covered species in the Natomas Basin: Swainson’s Hawk (*Buteo swainsoni*) and Giant Gartersnake (*Thamnophis gigas*):

- Swainson’s Hawk is an upland foraging species. It nests along the Sacramento River and in isolated trees and groves throughout the Natomas Basin. The NBHCP seeks to avoid development in the Swainson’s Hawk Zone¹ and to acquire upland habitat as Mitigation Lands inside the Swainson’s Hawk Zone.

¹ The NBHCP Swainson’s Hawk Zone is defined as the lands which are not currently developed [excluding the 250 acres of land designated “Urban” on the City of Sacramento General Plan and the North Natomas Community Plan located within the City of Sacramento] and which are located within the Natomas Basin and within one mile east of the toe of the inside levee of the Sacramento River and extending from the Natomas Cross Canal on the north and Interstate 80 on the south.



- Giant Gartersnake is found primarily in agricultural wetlands (such as rice fields) and other waterways such as drainage canals as well as adjacent uplands in many portions of the Natomas Basin².

It is anticipated that management of habitat for Swainson's Hawk and Giant Gartersnake will benefit the other covered species: Aleutian Cackling Goose (*Branta hutchinsii leucopareia*), Bank Swallow (*Riparia riparia*), Burrowing Owl (*Athene cunicularia*), Loggerhead Shrike (*Lanius ludovicianus*), Tricolored Blackbird (*Agelaius tricolor*), White-faced Ibis (*Plegadis chihi*), Northwestern Pond Turtle (*Actinemys marmorata*), California Tiger Salamander (*Ambystoma californiense*), Western Spadefoot Toad (*Spea hammondi*), Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*), Midvalley Fairy Shrimp (*Branchinecta mesovallensis*), Vernal Pool Fairy Shrimp (*Branchinecta lynchi*), Vernal Pool Tadpole Shrimp (*Lepidurus packardii*), Boggs Lake Hedge-Hyssop (*Gratiola heterosepala*), Colusa Grass (*Neostapfia colusana*), Delta Tule Pea (*Lathyrus jepsonii* var. *jepsonii*), Legenere (*Legenere limosa*), Sacramento Orcutt Grass (*Orcuttia viscida*), Slender Orcutt Grass (*Orcuttia tenuis*), and Sanford's Arrowhead (*Sagittaria sanfordii*).

Adaptive management is a key provision of the NBHCP, allowing examination of "alternative strategies for meeting measurable goals and objectives, and then, if necessary, adjusting future conservation and management actions according to what is learned" (NBCHP Page I-41).

2.4 Local Policies and Ordinances

The Project site is located in an area of unincorporated Sacramento County that is being annexed within the City of Sacramento (City) jurisdiction, and therefore is subject to the following local and regional regulations.

2.4.1 City of Sacramento General Plan

The City of Sacramento General Plan is a set of goals, objectives, policies, implementation measures, and maps that form a blueprint for physical development within the limits of City. The General Plan contains numerous goals, policies, and strategies to protect and/or preserve environmental resources (City of Sacramento 2015).

The Environmental Resources section of the General Plan Part 2 Citywide Goals and Policies include policies to guide development and infrastructure practices with goals aimed to preserve and maintain the quality of the City's water resources, biological species and habitats, urban forest, agricultural land, mineral resources, air, and scenic amenities.

The Water Resources element includes the goal of water quality protection through protecting local watersheds, water bodies and groundwater resources, including creeks, reservoirs, the Sacramento and American Rivers, and their shorelines. This element includes policies for conservation of open space areas, regional planning, stormwater quality, new development, limiting stormwater peak flows, post-development runoff, construction site impacts, clean watershed, groundwater recharge, and watershed education.

The Biological Resources element includes the goal of natural and open space protection through protecting and enhancing open space, natural areas, and significant wildlife and vegetation in the City as integral parts of a sustainable environment within a larger regional ecosystem. This element includes policies for resource preservation, conservation of open space, natural lands management, retaining habitat areas, riparian habitat integrity, wetland protection, annual grassland protection, oak woodland protection, wildlife corridor protection,

² https://www.fws.gov/sacramento/es_species/Accounts/Amphibians-Reptiles/giant_garter_snake/



habitat assessments, agency coordination, Natomas Basin HCP, supporting regional habitat conservation plan efforts, climate change-related habitat shifts and habitat restoration and enhancement, public education, and community involvement.

The Agricultural element includes the goal of urban agriculture and access to locally grown foods through expanding urban agriculture and food production and increasing the distribution and sale of locally grown fresh food.

2.4.2 City of Sacramento Code Chapter 12.56: Tree Planting, Maintenance, and Conservation

The City has adopted a tree ordinance “to provide for the conservation of existing tree resources; to optimize tree canopy coverage throughout the city while recognizing individual rights to develop and make reasonable use of private property consistent with the general plan; and to provide clear standards for protection, removal, and replacement of city trees and private protected trees” (City Code § 12.56.010). For the purposes of this ordinance, the two categories of protected trees are defined as:

“City Tree” means any tree the trunk of which, when measured four and one-half feet above ground, is partially or completely located in a city park, on real property the city owns in fee, or on a public right-of-way, including any street, road, sidewalk, park strip, mow strip, or alley.

“Private Protected Tree” means:

- *A tree that is designated by city council resolution to have special historical value, special environmental value, or significant community benefit, and is located on private property;*
- *Any native Valley Oak (*Quercus lobata*), Blue Oak (*Quercus douglasii*), Interior Live Oak (*Quercus wislizenii*), Coast Live Oak (*Quercus agrifolia*), California Buckeye (*Aesculus californica*), or California Sycamore (*Platanus racemose*), that has a [diameter at standard height (DSH)] of twelve inches (12) inches or more, and is located on private property;*
- *A tree that has a DSH of twenty-four (24) inches or more located on private property that is an undeveloped lot or does not include any single unit or duplex dwellings; or*
- *A tree that has a DSH of thirty-two (32) inches or more located on private property that includes any single unit or duplex dwelling.*

The City recognizes that “trees are a signature of the city and are an important element in promoting the well-being of the citizens of Sacramento” (City Code § 12.56.010). The City requires a tree permit to perform any activity, not including routine maintenance, that could adversely impact the health of a city tree or private protected tree (City Code Section 12.56.020). These regulated work activities include to following:

- Removal of a tree;
- Pruning of branches or roots;
- Affixing signs, lights, or other hardware to a tree;
- Grading, clearing, excavating, adding fill soil, trenching, boring, compacting, or paving within the tree protection zone;
- Placing or storing construction equipment or construction material within the tree protection zone;
- Application of any harmful substance within the tree protection zone; and
- Topping of a tree.



3 Methods

This Assessment is informed by data from a desktop analysis of the literature and numerous resource databases, as well as field surveys. The methods used to complete these surveys and desktop analyses are described below.

3.1 Desktop Review

Prior to conducting field surveys, Bargas conducted an initial review of literature and data sources to characterize biological conditions and to compile records of sensitive biological resources that could potentially occur in the Biological Study Area. The methods used for this analysis are described below.

3.1.1 Biological Setting

The biological setting includes terrain, hydrology, soils, land uses, and other features that support or inhibit biological resources in an area. In order to better understand the biological setting of the project, the following resources were reviewed in detail:

- US Fish and Wildlife Service's *National Wetlands Inventory* (USFWS 2021) to determine if surface waters and wetlands have been mapped on or adjacent to the Biological Study Area.
- US Geological Survey's *National Hydrography Dataset* (USGS 2021) to determine if hydrological features have been mapped on or adjacent to the Biological Study Area.
- US Department of Agriculture National Resource Conservation Service *Web Soil Survey* (NRCS 2021) to map and describe soil(s) within the Biological Study Area.

Google Earth Pro aerial map images of the Biological Study Area, including historical aerial images.

3.1.2 Special Status Species & Habitats

It is important to create a well-defined list of habitats and species that could reasonably be expected to occur on the Project site in order to analyze potential Project effects on biological resources effectively. The following describes how the list of potentially-occurring special status biological resources was assembled.

3.1.2.1 Data Sources

Species and habitat occurrences were queried from the following resources:

- US Fish and Wildlife Service's *Information for Planning and Consultation* portal (IPaC) (USFWS 2022) for a list of federally listed species and designated critical habitat recommended for impact analysis consideration, based on an upload of the Biological Study Area limits.
- California Department of Fish and Wildlife's *California Natural Diversity Database* (CNDDDB) (CDFW 2022) for special status species and habitat records within the Regional Study Area.
- California Native Plant Society's *Inventory of Rare and Endangered Plants* (CNPSa 2022) for a list of special status plant species occurrences within the USGS 7.5-minute quadrangles that overlap the Regional Study Area.



3.1.2.2 Special Status Designations Considered

A variety of agencies and respected non-profit organizations assess the conservation status of plant and wildlife species, however, not all are applicable to this Assessment. The following special status designations were considered when determining special status species to be discussed in this Assessment:

- **Federal Status:** Species listed as **Endangered (FE)** or **Threatened (FT)**, as well as species **Proposed as Endangered (FPE)**, **Proposed as Threatened (FPT)**, **Proposed for Delisting (FPD)**, and **Candidates (FC)** for listing under the Federal Endangered Species Act.
- **California Status:** Species listed as **Endangered (CE)** or **Threatened (CT)**, as well as species that are **Candidates for Endangered (CCE)** status, **Threatened (CCT)** status, or **Delisting (CCD)** under the California Endangered Species Act. Also considered are species listed as **Fully Protected (FP)** and **Species of Special Concern (SSC)**.
- **CNPS Status:** All California Rare Plant Ranks (CRPR) maintained by the CNPS *Inventory of Rare and Endangered Plants*.
- **Vegetation Communities:** All vegetation communities mapped by the CNDDB.

3.1.3 Occurrence Potential

Following the desktop review, field surveys, and habitat analyses, Bargas assessed the potential for the occurrence of special status species in the Biological Study Area. Biological conditions (vegetation communities, wildlife habitats, disturbances, etc.) and the habitat and life cycle requirements of special status species identified for analysis in the desktop review were considered. “Recent” occurrences are defined as observed within the past 30 years. Based on these considerations, species were assigned to the following categories:

- **Present:** Species is known to occur in Biological Study Area based on recent surveys, CNDDB (within 30 years), or other records.
- **High:** Species with known recent recorded occurrences/populations near the Biological Study Area and highly suitable habitat occurs within the Biological Study Area. Highly suitable habitat includes all necessary elements to support the species (e.g., elevation, hydrology, soils, cover, habitat type, food resources).
- **Moderate.** Species with known recent recorded occurrences/populations near the Biological Study Area; however, habitat within the Biological Study Area has been moderately disturbed, fragmented, or is small in extent. Moderately suitable habitat includes several elements to support the species (e.g., elevation, hydrology, soils, cover, habitat type, food resources). Furthermore, moderately suitable habitat may also be located at the edge of the species’ range, or there are no reported occurrences nearby.
- **Low.** Species with few known recent recorded occurrences/populations near the Biological Study Area and habitat within the Biological Study Area is highly disturbed or extremely limited. A low potential is assigned to annual or perennial plant species that may have been detectable during a focused survey in the appropriate blooming period but was not found; however, small populations or scattered individuals are still considered to have a low potential to occur. Additionally, species for which poor-quality habitat may support the species within the Biological Study Area, but the reported extant range is far outside the Biological Study Area and/or any species observations would anticipate being migratory (i.e., not likely to reproduce within the Biological Study Area).



- **Presumed Absent/No Potential.** Focused surveys were conducted and the species was not detected, or the species was found in the desktop review, but suitable habitat (soil, vegetation, elevational range) was not found in the BSA, or the BSA is not within the known geographic range of the species.

The potential for bird species were further distinguished into those that may: 1) nest within or near the Biological Study Area; 2) forage within or near the Biological Study Area; and/or 3) occur on or near the Biological Study Area only as transients during migratory flights or other dispersal events.

3.2 Field Surveys

Bargas biologists conducted five survey site visits for biological resources from October 2021 to July 2022. Survey dates, times, personnel, and weather conditions are summarized in **Table 1** below. The biological survey was conducted across two site visits conducted in March and April 2022. These pedestrian surveys consisted of transects through the Project site, scanning adjacent areas within the Biological Study Area and Annexation Area using binoculars. The entirety of the Project site and areas within the Biological Study Area and Annexation Area accessible from public rights-of-way or visible from the Project site were evaluated for the presence of habitat components that could support special status plant and wildlife species identified during the literature and database review described above. The biological surveys conducted were comprehensive but do not equate to protocol-level surveys defined by regulating and/or resource protection agencies.

The surveys also included a formal aquatic resources delineation conducted in October 2021 and July 2022, for which the detailed USACE methodology can be found in the Aquatic Resources Delineation Report prepared for the Project (Bargas 2022). A site visit was also conducted in May 2022 with the Applicant and staff from various agencies during which additional bird species observations were documented.

The surveys occurred within the typical nesting bird season (February 15 – August 31) and within the blooming period of all 27 special status plant species identified in the literature and database review.

Table 1. Survey Summary Table

Date	Biologist(s)	Time	Start Conditions			End Conditions		
			Temp	Clouds	Wind	Temp	Clouds	Wind
October 27, 2021	Krystal Pulsipher, Bekah Christianson	0845 - 1300	52°F	Mostly Cloudy	Light Breeze out of the South	64°F	Mostly Clear	Light Breeze out of the Northwest
October 28, 2021	Krystal Pulsipher, Bekah Christianson	0845 - 1500	54°F	Mostly Clear	Light Breeze out of the Southeast	72°F	Mostly Clear	Calm
March 9, 2022	Krystal Pulsipher, Bekah Christianson	0830 - 1545	50°F	Partly Cloudy	Moderate Breeze out of the Southwest	70°F	Partly Cloudy	Light Breeze out of the Northwest



Date	Biologist(s)	Time	Start Conditions			End Conditions		
			Temp	Clouds	Wind	Temp	Clouds	Wind
April 12, 2022	Owen Routt, Sophia Chau	0900 - 1345	57°F	Partly Cloudy	Calm	61°F	Clear	Calm
May 27, 2022	Krystal Pulsipher, Marcus England	0845 - 1100	70°F	Clear	Calm	75°F	Clear	Calm
July 5, 2022	Krystal Pulsipher	1400 – 1350	87°F	Mostly Clear	Light Breeze out of the Southwest	89°F	Mostly Clear	Light Breeze out of the Southwest

3.3 Taxonomy and Nomenclature

Every effort was made to use naming standards that are recognized by the scientific community, with the understanding that – for many wildlife groups – scientists may not always agree on a standard source. Because of this, some common names used in this report may not be the same as those used by the underlying data sources for species records. Bargas maintains a yearly-updated reference species list which uses the following taxonomic sources:

- **Birds** – American Ornithological Society Check-list and Supplements (AOS 1998).
- **Mammals** – The reference list in the CDFW’s California Wildlife Habitats Relationships Database (CDFW 2014), with updates based on the American Society of Mammologists Mammal Diversity Database (2020).
- **Reptiles and Amphibians** – The technical website californiaherps.com, which is regularly updated based on the latest taxonomic literature.
- **Fish** – Common and Scientific Names of Fishes from the United States, Canada, and Mexico, 7th edition (AFS 2013)
- **Invertebrates** – no naming standard was identified that was current and applicable to freshwater and terrestrial invertebrates. Names used by the underlying data sources when a species was first identified were retained.
- **Plants** – the Jepson eFlora (Jepson Flora Project 2021)

Birds have the most well-established naming standards of all taxonomic groups. These standards include instructions for the proper use of capitalization for common names to make clear that, for example, someone mentioning a Blue-winged Teal refers to the species “Blue-winged Teal” and not any species of teal with blue wings. The capitalization standards used for birds have been used with other taxa as well throughout this report.



4 Results

This section discusses in detail what is known about biological resources in the Biological Study Area based on information from field surveys, 151 CNDDB records, 21 CNPS records, 8 IPaC records, and 4 critical habitat determinations in the Regional Study Area.

4.1 Biological Setting

When viewing the Regional Study Area limits in its entirety on aerial photography, the defining land use of the region is agriculture. Urban land uses are also significant and comprise the majority land use of the southeastern third of the Regional Study Area. Natural habitats are present, however, including interspersed and sometimes substantial annual grasslands, shrublands, and riparian woodlands along the margins of the Sacramento River in the west and American River in the southeast. Special status habitats such as vernal pools are also present in the region, particularly on sites with lesser disturbance. There are no significant terrain features present in the Regional Study Area: elevations range from approximately 15 to 100 feet above mean sea level. The Regional Study Area is within the Lower Sacramento watershed, Hydrologic Unit Code-8 18020109.

4.2 Soils

Six soil types exist within the Project site, as summarized in **Table 2** below with the types, parent material, drainage class, and hydric rating. A map showing soils is provided as **Exhibit 3**. The NRCS soil report for the Project site is included in **Appendix D**. These same soil types also continue off-site into the Annexation Area as also shown on Exhibit 3.

Table 2. Soil Series within the Biological Study Area

Soil Series	Map Unit Number	Map Unit Symbol	Parent Material	Drainage Class	Hydric Rating
Capay clay loam, 0 – 2% slopes, occasionally flooded	113	hhlm	Alluvium	Moderately well drained	No
Clear Lake clay, hardpan substratum, drained, 0-1% slopes	115	hhlp	Alluvium	Somewhat poorly drained	Yes
Cosumnes silt loam, partially drained, 0-2% slopes	127	2x415	Alluvium derived from igneous and metamorphic rock	Somewhat poorly drained	Yes
Jacktone clay, drained, 0-2% slopes	161	hhn5	Alluvium	Somewhat poorly drained	Yes
San Joaquin silt loam, leveled, 0-1% slopes	213	hhpv	Alluvium derived from granite	Moderately well drained	No
San Joaquin silt loam, 0-3% slopes	214	hhpw	Alluvium derived from granite	Moderately well drained	No

Source: NRCS 2022



Exhibit 3. Soils



4.3 Aquatic Resources

4.3.1 Project Site

A total of 2.018 acres (15,424 linear feet) of potential jurisdictional tributary drainages and other waters of the U.S. have been identified within the Project site. **Table 3** below provides a summary of these features, including feature type, acreage, and length. **Exhibit 4** displays each feature identified in the Project site. These features are subject to the interpretation and verification of the U.S. Army Corps of Engineers Sacramento District Regulatory Division.

Table 3. Aquatic Features Observed in the Study Area

Feature Name	Area (acres)*	Length (linear feet)
Tributary Drainages		
Canal-1	0.04	2,149
Canal-2	1.46	3,204
Canal-3	0.001	5,335
Subtotal:	1.501	10,688
Other Waters		
Ditch-1	0.19	2,278
Ditch-2	0.39	2,458
Subtotal:	0.58	4,736
Grand Total:	2.081	15,424

Source: Bargas, 2022. *Acreages are calculated estimations that are subject to modification pending formal verification by USACE.

These features are best described as canals and ditches artificially excavated. The canals are operated and maintained by Reclamation District 1000 for the purpose of conveying stormwater and irrigation runoff collected in various smaller ditches and stormwater infrastructure in the local vicinity to one of several main drainage canals. Pumping plants along the main drainage canals then release water to the Sacramento River in a controlled manner. Canal-3 is the West Drainage Canal, one of the main drainage canals. The canals vary in size with OHWM widths ranging from approximately 25 to 54 feet with unknown depths. Duckweed (*Lemna* species) and dead material from Floating Water Primrose (*Ludwigia peploides*) were observed within the canals. The canal banks were relatively steep and vegetated by weedy species that grow in disturbed places, including Black Mustard (*Brassica nigra*), Milk Thistle (*Silybum marianum*), Ripgut Grass (*Bromus diandrus*), Rye Grass (*Festuca perennis*), Poison Hemlock (*Conium maculatum*), and Fennel (*Foeniculum vulgare*). The ditches convey stormwater and irrigation runoff from adjacent lands to one of several of the canals described above. The ditches vary in size with OHWM widths ranging from 3 to 7 feet and depths of 1 to 1.5 feet. Ditch-1 contained several large patches of shrub cover in the form of Himalayan Blackberry (*Rubus armeniacus*) with dominant plant species observed were Common Tule (*Schoenoplectus acutus* var. *occidentalis*), Tall Flatsedge (*Cyperus eragrostis*), Curly Dock (*Rumex crispus*), Johnson Grass (*Sorghum halepense*), and Bristly Ox-Tongue (*Helminthotheca echioides*). Ditch-2 did not contain any shrub cover and the dominant plant species observed were Annual Beard Grass (*Polypogon*



monspeliensis), Tall Flatsedge, and Curly Dock. The ditch banks were also relatively steep and vegetated by similar weedy type plant species as described for the canals above.

Canal-1 and Canal-2 are direct tributaries to Canal-3 (West Drainage Canal). Ditch-1 has direct hydrologic connectivity to Canal-3 within the Project site and Ditch-2 has direct hydrologic connectivity to Canal-1 outside of the Project site. Canal-3 is tributary to the Sacramento River, a USACE designated traditional navigable waterway, via multiple pumping stations managed by Reclamation District 1000. These features are subject to the interpretation and verification of the USACE Sacramento District Regulatory Division.

4.3.2 Annexation Area

Bargas examined data layers within the NHD and NWI to determine potential jurisdictional features within the Annexation Area. For linear features, both datasets show the area's canals and no other feature types. Several wetland features, however, are mapped by the NWI within the Annexation Area. These are discussed below and shown on **Exhibit 5**.

4.3.2.1 PEM1A

NWI features classified as PEM1A are located in the northwest corner of the Annexation Area (approximately 1.4 acres) and north-central portion of the Annexation Area (approximately 2.3 acres), the latter of which is connected to an area mapped as PEM1C (discussed below in **Section 4.3.2.2**). The NWI's definition of PEM1A features is as follows:

Palustrine - Emergent Persistent - Temporarily Flooded

Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Persistent Emergent wetlands are dominated by plants which have leaves and stems above the surface of the water during the entire year. In these wetlands emergent plants are the tallest life form and cover > 30% of the area.

This wetland is Temporarily Flooded with surface water present for a few days to a few weeks during the growing season. The water table usually lies well below the ground surface for the most of the season.

Typical species include:

Cattails (Typha), Bulrushes (Scirpus), Saw grass (Cladium jamaicense), Sedges (Carex), Manna grasses (Glyceria), Slough grass (Beckmannia syzigachne), Common river grass (Scolochloa festucacea), Purple loosestrife (Lythrum salicaria), Mexican dock (Rumex mexicanus), Swamp loosestrife (Decodon verticillatus), Smartweeds (Polygonum)

4.3.2.2 PEM1C

An NWI feature classified as PEM1C measuring approximately 4 acres in extent is located in the north-central portion of the Annexation Area and is connected to an area mapped as PEM1A (discussed above in **Section 4.3.2.1**). The NWI's definition of PEM1C features is as follows:



Palustrine- Emergent Persistent - Seasonally Flooded

Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Persistent Emergent wetlands are dominated by plants which have leaves and stems above the surface of the water during the entire year. In these wetlands emergent plants are the tallest life form and cover > 30% of the area.

This wetland is Seasonally Flooded with surface water present for extended periods during the growing season but absent by the end of the season in most years. When surface water is absent the depth to substrate saturation may vary considerably among sites and among years.

Typical species include:

Cattails (Typha), Bulrushes (Scirpus), Saw grass (Cladium jamaicense), Sedges (Carex), Manna grasses (Glyceria), Slough grass (Beckmannia syzigachne), Common river grass (Scolochloa festucacea), Purple loosestrife (Lythrum salicaria), Mexican dock (Rumex mexicanus), Swamp loosestrife (Decodon verticillatus), Smartweeds (Polygonum)

4.3.2.3 PSSC

An NWI feature classified as PSSC measuring approximately 1.5 acres in extent is located in the southeast portion of the Annexation Area. The NWI's definition of PSSC features is as follows:

Palustrine - Shrub/Scrub - Seasonally Flooded

Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Shrub/Scrub wetlands are dominated by woody plants < 6m (20 ft) tall that cover > 30% of the area. While these wetlands only occur in the Estuarine and Palustrine Systems, they are one of the most widespread wetland classes in the United States.

This wetland is Seasonally Flooded with surface water present for extended periods during the growing season but absent by the end of the season in most years. When surface water is absent the depth to substrate saturation may vary considerably among sites and among years.



Exhibit 4. Aquatic Resources Delineation



Exhibit 5. National Wetlands Inventory Within Annexation Area



4.4 Habitats and Vegetation Communities

4.4.1 Extant Vegetation Communities

The following sections describe the vegetation communities and other landcover types found within the Biological Study Area. Plant community names follow *A Manual of California Vegetation: Second Edition* (CNPS 2022), where applicable. The majority of the Biological Study Area, including the Project site, is composed of semi-natural vegetation alliances. The forest/woodland communities described below contain an understory more typical of these semi-natural vegetation alliances. **Table 4** below provides a summary of the vegetation communities and land cover observed within the Biological Study Area. Photographs showing vegetation conditions during the field surveys are provided in **Appendix C**.

Table 4. Vegetation Community Summary.

Common Name	Scientific Name	Project Site Acres	Biological Study Area Only Acres	TOTAL Acres
Perennial Rye Grass Fields	<i>Lolium perenne</i> Herbaceous Semi-Natural Alliance	260.49	9.44	269.93
Upland Mustards or Star-thistle Fields	<i>Brassica nigra</i> - <i>Centaurea (solstitialis, melitensis)</i> Herbaceous Semi-Natural Alliance	69.44	60.66	130.10
Disturbed/Developed	Disturbed/Developed	5.23	36.58	41.81
Open Water	Open Water	1.93	9.20	11.13
Unknown Row Crops	Unknown Row Crops	0.00	4.58	4.58
Poison Hemlock or Fennel Patches	<i>Conium maculatum</i> - <i>Foeniculum vulgare</i> Herbaceous Semi-Natural Alliance	1.28	2.63	3.91
Himalayan Blackberry - Rattlebox - Edible Fig Riparian Scrub	<i>Rubus armeniacus</i> - <i>Sesbania punicea</i> - <i>Ficus carica</i> Shrubland Semi-Natural Alliance	0.53	0.75	1.28
Goodding's Willow - Red Willow Riparian Woodland and Forest	<i>Salix gooddingii</i> - <i>Salix laevigata</i> Forest & Woodland Alliance	0.37	0.40	0.77
Valley Oak Riparian Forest and Woodland	<i>Quercus lobata</i> Riparian Forest & Woodland Alliance	0.07	0.69	0.75
Hardstem and California Bulrush Marshes	<i>Schoenoplectus (acutus, californicus)</i> Herbaceous Alliance	0.22	0.00	0.22
Cattail Marsh	<i>Typha (angustifolia, domingensis, latifolia)</i> Herbaceous Alliance	0.02	0.00	0.02
Grand Total		339.57	124.93	464.50

4.4.1.1 Perennial Rye Grass Fields

Perennial Rye Grass Fields (*Lolium perenne* [now *Festuca perennis*] Herbaceous Semi-Natural Alliance) can be found on 260.49 acres, or 76.71%, of the Project site and on 9.44 acres, or 2.03% of the Biological Study Area beyond the Project site boundary. Historic aerial imagery and field observations suggest the vegetation in these areas may be managed through mowing or shallow tilling for fire fuel abatement. This vegetation community was observed within two large fallowed agricultural fields, lower topographical roadside areas that receive sheet flow storm water runoff from the roads including the areas west and east of Metro Air Parkway north of Bayou Way,



and Ditch-2. The dominant plant species observed in these areas was Rye Grass with smaller amounts of the following species also observed: Perennial Pepperweed (*Lepidium latifolium*), Ripgut Grass, Little-seeded Canary Grass (*Phalaris minor*), and Johnson Grass.

4.4.1.2 Upland Mustards or Star-thistle Fields

Upland Mustards or Star-thistle Fields (*Brassica nigra* – *Centaurea [solstitialis, melitensis]* Herbaceous Semi-Natural Alliance) can be found on 60.44 acres, or 20.45%, of the Project site and on 60.66 acres, or 13.06% of the Biological Study Area beyond the Project site boundary. Historic aerial imagery and field observations suggest the vegetation in most areas of these areas may be managed through mowing or shallow tilling for fire fuel abatement. This vegetation community was observed within one large fallowed agricultural field and most roadside areas. The dominant plants species observed in these areas included Black Mustard, Jointed Charlock (*Raphanus raphinistrum*), Little Mallow (*Malva parviflora*), Bristly Ox-Tongue, and Ripgut Grass.

4.4.1.3 Developed / Disturbed

Developed / disturbed land cover can be found on 5.23 acres, or 1.54%, of the Project site and on 36.58 acres, or 7.87% of the Biological Study Area beyond the Project site boundary. Several paved roads transect the Biological Study Area and Project site, including Powerline Road, Bayou Way, Interstate 5, and an irrigation district access road. Bayou Way transects the northern end of the Project site and the southern end of Metro Air Parkway terminates at Bayou Way within the Project site boundary. A paved irrigation district access road also transects the northern end of the Project site along the south side of Ditch-2 between Bayou Way and Interstate 5. Interstate 5 is present within the northern end of the Biological Study Area beyond the Project site. The east side of the Biological Study Area also overlaps the edge of a line of homes in a residential neighborhood. The areas described above are best described as developed. Gravel road shoulders adjacent to paved roads, an unpaved farm road south of Canal-3, a construction yard on the south side of Bayou Way west of Metro Air Park, and a fire break and unpaved fire road along the east side of the Biological Study Area are best described as disturbed.

4.4.1.4 Open Water

Open water in the form of canals and ditches can be found on 1.93 acres, or 0.57%, of the Project site and 9.20 acres, or 1.98%, of the Biological Study Area beyond the Project site. These areas include aquatic features Canal-1, Canal-2, Canal-3, and Ditch-2 mapped during the formal aquatic resources delineation. These four features were observed to be inundated and lacking significant amounts of living emergent vegetation during most of the surveys.

4.4.1.5 Unknown Row Crops

Unknown row crop land cover can be found on 4.58 acres, or 1.98% of the Biological Study Area beyond the Project site boundary. The agricultural field present south of Canal-3 and adjacent to Powerline Road is best described as row crop agriculture and the species being cultivated and those plant species otherwise present are unknown.

4.4.1.6 Poison Hemlock or Fennel Patches

Poison Hemlock or Fennel Patches (*Conium maculatum* – *Foeniculum vulgare* Herbaceous Semi-Natural Alliance) can be found on 1.28 acres, or 0.38%, of the Project site and 2.63 acres, 0.57%, of the Biological Study Area beyond the Project site boundary. Historic aerial imagery and field observations suggest the vegetation in these areas may not be as regularly managed for fire fuel abatement due to their locations along the corners or edges of fields.



The dominant plant species observed in these areas include Poison Hemlock, Fennel, Milk Thistle, Wild Teasel (*Dipsacus fullonum*), Little Mallow, and Riggut.

4.4.1.7 Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub

Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub (*Rubus armeniacus* - *Sesbania punicea* – *Ficus carica* Shrubland Semi-Natural Alliance) can be found on 0.37 acres, or 0.11%, of the Project site and 0.75 acres, or 0.16%, of the Biological Study Area beyond the Project site boundary. This community is present in large patches along Ditch-1 and along a smaller ditch present just outside of the southeastern Project site boundary. These patches are predominantly composed of Himalayan Blackberry with smaller amounts of the following species also observed: Western Poison Oak (*Toxicodendron diversilobum*), Edible Fig (*Ficus carica*), Wild Teasel, Poison Hemlock, and Fennel.

4.4.1.8 Goodding’s Willow – Red Willow Riparian Woodland and Forest

Goodding’s Willow – Red Willow Riparian Woodland and Forest (*Salix gooddingii* – *Salix laevigata* Forest and Woodland Alliance) can be found on 0.37 acres, or 0.11%, of the Project site and 0.40 acres, or 0.09% of the Biological Study Area beyond the Project site boundary. This community is present adjacent to the south bank of Canal-2 where it turns east to follow parallel to Bayou Way, and along a ditch on the north side of Bayou Way within the Biological Study Area but outside of the Project site boundary. The trees are all of a single species, Goodding’s Willow (*Salix gooddingii*), and range in height from approximately 15 to 25 feet tall. Himalayan Blackberry, Common Tule, Tall Flatsedge, Curly Dock, and Johnson Grass are present in the understory along the ditch. Other parts of the understory are characterized by weedy species more typical of the Perennial Rye Grass Field, Upland Mustards and Star-thistle Field, and Poison Hemlock or Fennel Patch communities described in the sections above.

4.4.1.9 Valley Oak Riparian Forest Woodland

Valley Oak Riparian Forest Woodland (*Quercus lobata* Riparian Forest and Woodland Alliance) can be found on 0.07 acres, or 0.02%, of the Project site and 0.69 acres, or 0.15%, of the Biological Study Area beyond the Project site boundary. This community is present within and adjacent to both banks of Canal-2 where it meets Canal-3 on the southern side of the Biological Study Area. Several small groves of trees are also present along both banks of Canal-3 to the west of Canal-2. The trees are all of a single species, Valley Oak (*Quercus lobata*), and range in height from approximately 15 to 40 feet tall. Many of the trees are rooted within the bank and are failing as the bank erodes into the canal. The understory is characterized by weedy species more typical of the Perennial Rye Grass Field, Upland Mustards and Star-thistle Field, and Poison Hemlock or Fennel Patch communities described in the sections above.

4.4.1.10 Hardstem and California Bullrush Marsh

Hardstem and California Bullrush Marsh (*Schoenoplectus [acutus, californicus]* Herbaceous Alliance) can be found on 0.22 acres, or 0.07%, of the Project site only. The dominant plant species observed in these areas included Common Tule, Tall Flatsedge, Curly Dock, Johnson Grass, and Bristly Ox-Tongue. A few Fremont Cottonwood (*Populus fremonti*) trees, ranging from approximately 15 to 30 feet in height, are present and rooted within or adjacent to Ditch-1 where this community is present.



4.4.1.11 Cattail Marsh

Cattail Marsh (*Typha* [*angustifolia*, *domingensis*, *latifolia*] Herbaceous Alliance) can be found on 0.02 acres, or 0.01%, of the Project site only. The southern end of Ditch-1 widens just north of where it discharges to the West Drainage Canal and contains two patches of this vegetation community. These areas are dominated by Cattail species (*Typha* sp.) with smaller amounts of Common Tule.

4.4.2 Sensitive Vegetation Communities

The Biological Study Area contains two vegetation community alliances identified by CDFW and CNPS as sensitive communities (CNPSb 2022). Goodding's Willow – Red Willow Riparian Woodland and Valley Oak Riparian Forest and Woodland alliances described above as being present within the Biological Study Area are S3-ranked sensitive vegetation communities. Hardstem and California Bulrush Marsh is also present in the Biological Study Area and is an S3/S4-ranked sensitive vegetation community.

A total of two sensitive vegetation communities were mapped by the CNDDDB within the Regional Study Area. These communities and their potential for occurrence are discussed below:

- **Great Valley Cottonwood Riparian Forest**
1 CNDDDB record(s) in the Regional Study Area. Potential for Occurrence: None. Nearest CNDDDB record is more than 4 miles to the south along the Sacramento River. Community is not present on the Project site, Biological Study Area, or Annexation Area based on aerial photography and surveys.
- **Northern Claypan Vernal Pool**
1 CNDDDB record(s) in the Regional Study Area. Potential for Occurrence: None. The only CNDDDB record for this community is 4 miles to the east along Dry Creek. Community is not present on the Project site, Biological Study Area, or Annexation Area based on aerial photography and surveys.

4.4.3 Communities in the Annexation Area

Vegetation communities in the Annexation Area are a continuation of and consistent with the Biological Study Area's vegetation. Cover is dominated by Perennial Rye Grass Fields, Upland Mustards or Star-thistle Fields, and Disturbed with some riparian communities associated with the areas mapped by the NWI as described in **Section 4.3.2**.



Exhibit 6. Vegetation and Land Cover



4.5 Plants

4.5.1 Plant Diversity

A total 53 plant taxa were detected during field surveys. A list of all plant taxa detected during field surveys is provided in **Appendix A**. Of the species detected, only thirteen are native to California and 19 of the non-native species observed are recognized as invasive. Areas heavily disturbed by anthropogenic activities such as rural and urban development and agricultural activities can be expected to have lower floral diversity than areas containing intact natural plant communities and habitats. The majority of the Biological Study Area is composed of semi-natural vegetation alliances, as described in **Section 4.4**, which are dominated by non-native species. The understory of the forest/woodland alliances described above are dominated by non-native species, and the natural alliances present within the ditches are heavily infiltrated by non-native species.

4.5.2 Special Status Plants

The desktop review determined that 20 plant taxa with special status had been documented as occurring within the Regional Study Area. These taxa and their occurrence potential are discussed below and summarized in **Appendix B**.

4.5.2.1 Taxa Confirmed Present

No special status plant taxa from desktop analysis were determined to be **Present** in the Biological Study Area. None would be expected in the Annexation Area.

4.5.2.2 Taxa With High Potential for Occurrence

No special status plant taxa from desktop analysis were determined to have **High** potential for occurrence in the Biological Study Area. None would be expected in the Annexation Area.

4.5.2.3 Taxa with Moderate Potential for Occurrence

No special status plant taxa from desktop analysis were determined to have **Moderate** potential for occurrence in the Biological Study Area. None would be expected in the Annexation Area.

4.5.2.4 Taxa with Low Potential for Occurrence

The following six special status plant taxa from desktop analysis were determined to have **Low** potential for occurrence in the Biological Study Area. Likewise, all six would be expected to have the same potential for occurrence in the Annexation Area.

☛ **Pappose Tarplant**

Asteraceae > Centromadia parryi ssp. parryi

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms May-Nov

Habitat Requirements: Chaparral, Coastal prairie, Marshes and swamps, Meadows and seeps, Valley and foothill grassland at elevations ranging from 0 to 1,380 feet.

Microhabitat: Alkaline (often)

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles



Habitat Present: Low Quality
Soils Present: Unknown
Determination Reason: Nearest records are 8.5 miles to the southwest. All records are west and south of the Biological Study Area, which may be outside of the range of the species. Not expected due to agriculture-related site disturbance.

☛ **Heckard's Pepper-Grass**

Brassicaceae > *Lepidium latipes* var. *heckardii*

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms Mar-May

Habitat Requirements: Valley and foothill grassland at elevations ranging from 5 to 655 feet.

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Low Quality

Soils Present: Unknown

Determination Reason: Nearest extant occurrence is 7.5 miles to the southwest. Not expected due to agriculture-related site disturbance.

☛ **San Joaquin Sparscale**

Chenopodiaceae > *Extriplex joaquinana*

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms Apr-Oct

Habitat Requirements: Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland at elevations ranging from 5 to 2,740 feet.

Microhabitat: Alkaline

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Low Quality

Soils Present: Unknown

Determination Reason: Nearest records are 7.5 miles to the west. All records are west of the Project site, which may be outside of the range of the species. Not expected due to agriculture-related site disturbance.

☛ **Woolly Rose-Mallow**

Malvaceae > *Hibiscus lasiocarpus* var. *occidentalis*

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: perennial rhizomatous herb (emergent) blooms Jun-Sep

Habitat Requirements: Marshes and swamps at elevations ranging from 0 to 395 feet.

Inclusion Source(s): CNDDDB, CNPS

CNDDDB Records: 2



Nearest CNDDDB Record: > 3 Miles
Habitat Present: Low Quality
Soils Present: Unknown
Determination Reason: Nearest record was at the margins of a canal. Unlikely to be present because of site disturbance, but cannot be entirely dismissed.

☛ **Palmate-bracted Bird's-Beak**

Orobanchaceae > Chloropyron palmatum

FESA: Federal Endangered, CESA: California Endangered, CRPR 1B.1

California Endemic: True

Growth Habit: annual herb (hemiparasitic) blooms May-Oct

Habitat Requirements: Chenopod scrub, Valley and foothill grassland at elevations ranging from 15 to 510 feet.

Microhabitat: Alkaline

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Low Quality

Soils Present: Unknown

Determination Reason: Nearest records are 7.5 miles west of the Project site, which may be outside of the species' range. Unlikely to be present because of site disturbance, but cannot be entirely dismissed.

☛ **Sanford's Arrowhead**

Alismataceae > Sagittaria sanfordii

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: perennial rhizomatous herb (emergent) blooms May-Oct (Nov)

Habitat Requirements: Marshes and swamps at elevations ranging from 0 to 2,135 feet.

Inclusion Source(s): CNDDDB, CNPS, HCP

CNDDDB Records: 1

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Low Quality

Soils Present: Unknown

Determination Reason: Known to occur along roadside ditches and canals, however, all records are to the east and southeast and the Project site appears to be at the edge or outside of its distribution.

4.5.2.5 *Taxa with No Potential for Occurrence*

The following 14 special status plant taxa from desktop analysis were determined to have **No** potential for occurrence in the Biological Study Area. Likewise, none of these taxa would be expected to occur in the Annexation Area.

☛ **Suisun Marsh Aster**

Asteraceae > Symphyotrichum lentum



FESA: None, CESA: None, CRPR 1B.2

California Endemic: True
Growth Habit: perennial rhizomatous herb blooms (Apr) May-Nov
Habitat Requirements: Marshes and swamps at elevations ranging from 0 to 10 feet.
Inclusion Source(s): CNPS
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Soils Present: Unknown
Determination Reason: Nearest record is 7.5 miles to the southwest. Outside of species' known distribution range.

Dwarf Downingia

Campanulaceae > Downingia pusilla

FESA: None, CESA: None, CRPR 2B.2

California Endemic: False
Growth Habit: annual herb blooms Mar-May
Habitat Requirements: Valley and foothill grassland, Vernal pools at elevations ranging from 5 to 1,460 feet.
Inclusion Source(s): CNDDDB, CNPS
CNDDDB Records: 3
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Soils Present: Unknown
Determination Reason: Nearest CNDDDB records are 3.8 miles to the east. Biological Study Area lacks required habitat components (vernal pool).

Legenere

Campanulaceae > Legenere limosa

FESA: None, CESA: None, CRPR 1B.1

California Endemic: True
Growth Habit: annual herb blooms Apr-Jun
Habitat Requirements: Vernal pools at elevations ranging from 5 to 2,885 feet.
Inclusion Source(s): CNPS, HCP
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Soils Present: Unknown
Determination Reason: Nearest CNDDDB record is 5.5 miles to the east. Biological Study Area lacks required habitat components (vernal pool).

Heartscale

Chenopodiaceae > Atriplex cordulata var. cordulata

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True



Growth Habit: annual herb blooms Apr-Oct
Habitat Requirements: Chenopod scrub, Meadows and seeps, Valley and foothill grassland at elevations ranging from 0 to 1,835 feet.
Microhabitat: Alkaline (sometimes)
Inclusion Source(s): CNPS
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Soils Present: Unknown
Determination Reason: Nearest extant occurrence is 25 miles to the southwest. Outside of species' known distribution range.

☛ **Brittlescale**

Chenopodiaceae > *Atriplex depressa*

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms Apr-Oct

Habitat Requirements: Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland, Vernal pools at elevations ranging from 5 to 1,050 feet.

Microhabitat: Alkaline, Clay

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 6.7 miles to the west. Biological Study Area lacks required habitat components (playas).

☛ **Ferris' Milk-Vetch**

Fabaceae > *Astragalus tener* var. *ferrisiae*

FESA: None, CESA: None, CRPR 1B.1

California Endemic: True

Growth Habit: annual herb blooms Apr-May

Habitat Requirements: Meadows and seeps, Valley and foothill grassland at elevations ranging from 5 to 245 feet.

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 6.2 miles to the south. Biological Study Area lacks required habitat components (alkaline flats, vernal moist meadows).

☛ **Alkali Milk-Vetch**



Fabaceae > Astragalus tener var. tener

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms Mar-Jun

Habitat Requirements: Playas, Valley and foothill grassland, Vernal pools at elevations ranging from 5 to 195 feet.

Microhabitat: Alkaline

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 7.5 miles to the southwest. Biological Study Area lacks required habitat components (playas, vernal pools).

Delta Tule Pea

Fabaceae > Lathyrus jepsonii var. jepsonii

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: perennial herb blooms May-Jul (Aug-Sep)

Habitat Requirements: Marshes and swamps at elevations ranging from 0 to 15 feet.

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB record is 25 miles to the south. Outside of species' known distribution range.

Saline Clover

Fabaceae > Trifolium hydrophilum

FESA: None, CESA: None, CRPR 1B.2

California Endemic: True

Growth Habit: annual herb blooms Apr-Jun

Habitat Requirements: Marshes and swamps, Valley and foothill grassland, Vernal pools at elevations ranging from 0 to 985 feet.

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest records are 7.5 miles to the west. All records are west and south of the Project site, which may be outside of the range of the species. Biological Study Area lacks required habitat components (salt marsh).



☛ **Boggs Lake Hedge-Hyssop**

Plantaginaceae > Gratiola heterosepala

FESA: None, CESA: California Endangered, CRPR 1B.2

California Endemic: False

Growth Habit: annual herb blooms Apr-Aug

Habitat Requirements: Marshes and swamps (lake margins), Vernal pools at elevations ranging from 35 to 7,790 feet.

Microhabitat: Clay

Inclusion Source(s): CNPS, HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 5.6 miles to the northeast. Biological Study Area lacks required habitat components (lake margins, vernal pools).

☛ **Colusa Grass**

Poaceae > Neostapfia colusana

FESA: Federal Threatened, CESA: California Endangered, CRPR 1B.1

California Endemic: True

Growth Habit: annual herb blooms May-Aug

Habitat Requirements: Vernal pools at elevations ranging from 15 to 655 feet.

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 13 miles to the southwest. Outside of species' known distribution range.

☛ **Slender Orcutt Grass**

Poaceae > Orcuttia tenuis

FESA: Federal Threatened, CESA: California Endangered, CRPR 1B.1

California Endemic: True

Growth Habit: annual herb blooms May-Sep (Oct)

Habitat Requirements: Vernal pools at elevations ranging from 115 to 5,775 feet.

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest record is 20 miles to the southeast. Outside of species' known distribution range.

☛ **Sacramento Orcutt Grass**



Poaceae > *Orcuttia viscida*

FESA: Federal Endangered, CESA: California Endangered, CRPR 1B.1

California Endemic: True

Growth Habit: annual herb blooms Apr-Jul (Sep)

Habitat Requirements: Vernal pools at elevations ranging from 100 to 330 feet.

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: No

Determination Reason: Nearest records are 17 miles to the east. Outside of species' known distribution range.

California Alkali Grass

Poaceae > *Puccinellia simplex*

FESA: None, CESA: None, CRPR 1B.2

California Endemic: False

Growth Habit: annual herb blooms Mar-May

Habitat Requirements: Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools at elevations ranging from 5 to 3,050 feet.

Inclusion Source(s): CNPS

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Soils Present: Unknown

Determination Reason: Nearest CNDDDB records are 7 miles to the west and southwest. Biological Study Area lacks required habitat components (saline flats, mineral springs).

4.6 Wildlife

4.6.1 Wildlife Diversity

A total of 51 wildlife taxa were detected during field surveys including 45 bird species, three mammal species, four reptile species, and one amphibian species. A list of all wildlife taxa detected during field surveys is provided in **Appendix A**.

4.6.2 Special Status Wildlife

The desktop review determined that 28 wildlife taxa with special status had been documented as occurring within the Regional Study Area. These taxa and their occurrence potential are discussed below and summarized in **Appendix B**.

4.6.2.1 *Taxa Confirmed Present*

The following four special status wildlife taxa from desktop analysis were determined to be **Present** in the Biological Study Area. Likewise, all four would be present in the Annexation Area.



🦎 Giant Gartersnake

Colubridae > *Thamnophis gigas*

Federal Threatened; California Threatened

Life History: Historically ranged in the Sacramento and San Joaquin valleys. Its current range is much reduced, and it is apparently extirpated south of Fresno County except for western Kern County. Primarily associated with marshes and sloughs, less with slow-moving creeks, and absent from larger rivers. Active from mid-March until October. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): CNDDDB; IPaC; HCP

CNDDDB Records: 53

Nearest CNDDDB Record: Overlaps

Habitat Present: Medium Quality

Determination Reason: The species was not observed during any of Bargas' five surveys. There are several CNDDDB records within the past 20 years documenting the presence of Giant Gartersnake in the West Drainage Canal in the vicinity of the Project site. The West Drainage Canal is hydrologically connected to Fisherman's Lake, located approximately 0.5-mile south of the Project site, where there is a known population of Giant Gartersnake. Habitat for this species in the Biological Study Area is best described as marginal as it contains some of the elements required by this species and could support transient individuals. Habitat in the Biological Study Area consists of interconnected drainage canals (i.e. Canal-1, Canal-2, Canal-3/West Drainage Canal). These canals are likely inundated during the summer as they collect irrigation and storm water run-off from surround lands during the growing season. All canals were observed to contain some cover of emergent aquatic vegetation dominated by Floating Water Primrose (*Ludwigia peploides*), with small areas of Cattail, and Common Tule. Cover of these emergent aquatic species was low at the time of the April survey. However, large areas of open water had remnants of Floating Water Primrose from the previous growing season indicating that cover of this species may be substantial mid-summer. Much of the canal banks are vertical and undercut with few visible burrows suitable for this species. The top of the canal banks are highly compacted and show evidence of repeated mowing and grading along many reaches. No burrows capable of supporting overwintering Giant Gartersnake were observed during the April survey. Habitat in the Biological Study Area is unlikely to support a permanent population due to its lack of suitable burrows and high levels of vegetation management. However, the marginal habitat present provides connectivity to occupied sites to the north and south of the Biological Study Area within the American Basin. Though not ideal for Giant Gartersnake, the canals within Biological Study Area could support transient individuals on a temporary basis.

🦎 Northwestern Pond Turtle

Emydidae > *Actinemys marmorata*

California Species of Special Concern



Life History: Actinemys species are uncommon to common in suitable aquatic habitat throughout California, west of the Sierra-Cascade crest and absent from desert regions, except in the Mojave Desert along the Mojave River and its tributaries. Elevation range extends from near sea level to 1,430 meters (4,690 feet). Associated with permanent or nearly permanent water in a wide variety of habitat types. Western Pond Turtle was split into two species in 2014, with *A. marmorata* ranging from the Central Valley north. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): CNDDDB; Bargas; HCP

CNDDDB Records: 1

Nearest CNDDDB Record: 1 to 3 Miles

Habitat Present: Medium Quality

Determination Reason: Was detected during three of Bargas' five surveys in Canal-2 and Canal-3 (West Drainage Canal) within the Biological Study Area. Individuals were observed sunning on floating debris and/or vegetation within the canals. Adjacent upland habitats are marginal for this species as much of the canal banks are vertical and undercut. Further, the top of the canal banks are highly compacted and show evidence of repeated mowing and grading along many reaches.

Northern Harrier

Accipitridae > *Circus hudsonius*

California Species of Special Concern

Life History: Occurs from annual grassland up to lodgepole pine and alpine meadow habitats, as high as 3,000 m (10,000 ft). Breeds from sea level to 1,700 m (0-5,700 ft) in the Central Valley and Sierra Nevada, and up to 800 m (3,600 ft) in northeastern California. Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. Permanent resident of the northeastern plateau and coastal areas; less common resident of the Central Valley. Widespread winter resident and migrant in suitable habitat. California population has decreased in recent decades, but can be locally abundant where suitable habitat remains free of disturbance, especially from intensive agriculture. Breeding population much reduced, especially in southern coastal district. Destruction of wetland habitat, native grassland, and moist meadows, and burning and plowing of nesting areas during early stages of breeding cycle, are major reasons for the decline. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): Bargas

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: High Quality

Determination Reason: Observed foraging on and flying over the Project site on two of the five surveys conducted by Bargas biologists.



Swainson's Hawk

Accipitridae > *Buteo swainsoni*

California Threatened

Life History:

Uncommon breeding resident and migrant in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and Mojave Desert. Very limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, and Antelope Valley. Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah in the Central Valley. Forages in adjacent grasslands or suitable grain or alfalfa fields, or livestock pastures. In southern California, now mostly limited to spring and fall transient. Formerly abundant in California with wider breeding range. Decline resulted in part from loss of nesting habitat. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s):

CNDDDB; Bargas; HCP

CNDDDB Records:

47

Nearest CNDDDB Record:

Overlaps

Habitat Present:

High Quality

Determination Reason:

Present and observed during April and May surveys. Nesting activity was not detected, however, a nesting survey has not been conducted. Nesting habitat is limited in the Biological Study Area.

4.6.2.2 Taxa With High Potential for Occurrence

The following special status wildlife taxon from desktop analysis was determined to have **High** potential for occurrence in the Biological Study Area. Likewise, this taxon would be expected to have the same potential for occurrence in the Annexation Area.

White-tailed Kite

Accipitridae > *Elanus leucurus*

California Fully Protected

Life History:

Common to uncommon, yearlong resident in coastal and valley lowlands; rarely found away from agricultural areas. Inhabits herbaceous and open stages of most habitats mostly in cismontane California. Has extended range and increased numbers in recent decades. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s):

CNDDDB

CNDDDB Records:

4

Nearest CNDDDB Record:

> 3 Miles

Habitat Present:

High Quality

Determination Reason:

The Project site contains foraging habitat that could support this species; however, nesting habitat is limited and composed of the relatively few Goodding's Black Willow, Valley Oak, and other trees along the canal and ditch banks.



4.6.2.3 *Taxa With Moderate Potential for Occurrence*

The following special status wildlife taxon from desktop analysis was determined to have **Moderate** potential for occurrence in the Biological Study Area. Likewise, this taxon would be expected to have the same potential for occurrence in the Annexation Area.

Burrowing Owl

Strigidae > Athene cunicularia

California Species of Special Concern

Life History: A yearlong resident of open, dry grassland and desert habitats, and in grass, forb and open shrub stages of Pinyon-Juniper and Ponderosa Pine habitats. Formerly common in appropriate habitats throughout the state, excluding the humid northwest coastal forests and high mountains. Numbers markedly reduced in recent decades. Present on the larger offshore islands. Found as high as 1600 meters (5300 feet) in Lassen County. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): CNDDDB; HCP

CNDDDB Records: 17

Nearest CNDDDB Record: 1 to 3 Miles

Habitat Present: Medium Quality

Determination Reason: Most regional records are east of Highway 99. There are, however, recent CNDDDB records from the Sacramento International Airport. Has the potential to occur widely during migration and winter in appropriate open habitats and disturbed areas. The Biological Study Area contains some open disturbed areas, primarily in the construction staging area along the south side of Bayou Way and west of Metro Air Parkway, that provide marginal habitat for this species; however, existing suitable burrows and ground-squirrels were not observed.

4.6.2.4 *Taxa With Low Potential for Occurrence*

The following 6 special status wildlife taxa from desktop analysis were determined to have **Low** potential for occurrence in the Biological Study Area. Likewise, all six would be expected to have the same potential for occurrence in the Annexation Area.

Monarch - California Overwintering Population

Nymphalidae > Danaus plexippus pop. 1

Federal Candidate

Life History: The iconic black and orange Monarch butterfly is known for its astonishing long-distance annual migration and reliance on milkweed as its obligate larval host plant. Though genetically similar, there are two subpopulations of Monarchs in North America, with the eastern population overwintering in Mexico and breeding in the midwestern states, and the western population overwintering in coastal California and fanning out across the west from Arizona to Idaho. Both North American migratory populations have declined over the past twenty years due to a suite of interrelated factors including habitat loss in breeding and overwintering sites, habitat



degradation, disease, pesticide exposure, and climate change. Recently the western population has experienced dramatic swings, for a low of less than 2,000 in 2020-21 to over 200,000 in 2021-22. While it is unclear which of the many factors are driving these dynamics, insect population commonly fluctuate from year to year. Though more research is needed, a stable population for western monarchs is likely closer to the historic averages in the 1980's, which are estimated to have ranged between one to four million overwintering butterflies. *Source:*

<https://wildlife.ca.gov/Conservation/Invertebrates/Monarch-Butterfly>

Inclusion Source(s):	IPaC
CNDDDB Records:	0
Nearest CNDDDB Record:	> 3 Miles
Habitat Present:	Low Quality
Determination Reason:	Nearest CNDDDB records are 38 miles to the southwest. As a migratory species with flight capability, has potential to occur anywhere during movements. Unlikely to be resident on the Project site due to agricultural land uses and lack of suitable host plants.

Cackling Goose

Anatidae > *Branta hutchinsii*

No special status

Life History:

The only subspecies of *B. hudsonii* in California (*B.h. leucoparia*) was once considered a subspecies of *B. canadensis*, the Canada Goose (*B.c. leucoparia*). Preferred habitats include lacustrine, fresh emergent wetlands, and moist grasslands, croplands, pastures, and meadows. This species occurs mainly in these habitats during winter in Del Norte county, the San Francisco bay-delta, and southern Central Valley. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s):	HCP
CNDDDB Records:	0
Nearest CNDDDB Record:	> 3 Miles
Habitat Present:	Low Quality
Determination Reason:	Nearest CNDDDB record is 28 miles to the north. While this is an NBHCP Covered Species, it has not been recorded within the Natomas Basin. Sometimes occurs singly or in small numbers with more numerous Canada Geese, which will often feed in agricultural fields, especially during winter months.

White-faced Ibis

Threskiornithidae > *Plegadis chihi*

No special status

Life History:

The White-faced Ibis is an uncommon summer resident in sections of southern California, a rare visitor in the Central Valley, and is more widespread in migration. It prefers to feed in fresh emergent wetland, shallow lacustrine waters, muddy ground of wet meadows, and irrigated



or flooded pastures and croplands. Nests in dense, fresh emergent wetland. Formerly more common, especially in the San Joaquin Valley, this species no longer breeds regularly anywhere in California. A few pairs bred in 1977 and 1978 at the Salton Sea, and in 1979 at Buena Vista Lagoon, San Diego County. Has nested at Honey Lake, in the Klamath Basin, and at a few isolated areas in Central Valley. At Salton Sea area, fairly common April to September, and uncommon through winter; uncommon transient elsewhere in southern California, and very local winter visitant along coast. Rare in San Joaquin Valley, occurring mainly near Los Banos, August to April; and rare on northeastern plateau April to September. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): HCP
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Low Quality
Determination Reason: Nearest CNDDDB records are 8 miles to west, though also present in significant numbers at Yolo Bypass 5 miles to the southwest. Has some potential to be observed on the Project site at the margins of canals or adjacent agricultural areas for foraging. Project site does not contain habitat to support nesting.

Loggerhead Shrike

Laniidae > Lanius ludovicianus

California Species of Special Concern

Life History: A common resident and winter visitor in lowlands and foothills throughout California. Prefers open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches. Highest density occurs in open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper, juniper, desert riparian, and Joshua Tree habitats. In the Great Basin, from Inyo County north, population declines markedly from November through March. Rare on coastal slope north of Mendocino County, occurring only in winter. Occurs only rarely in heavily urbanized areas, but often found in open cropland. Sometimes uses edges of denser habitats. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): HCP
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Low Quality
Determination Reason: Under-reported in the CNDDDB, the nearest records are more than 50 miles distant. Occurs sparingly in the Natomas Basin. Unlikely to be present on the Project site due to lack of scrubby habitat which is normally present in preferred areas.



🐦 Song Sparrow (Modesto Population)

Passerellidae > Melospiza melodia

California Species of Special Concern

Life History: A common resident of most of California, but avoids higher mountains and occurs only locally in southern deserts. In winter, most leave montane habitats; more abundant and widespread than in lowlands and deserts. At all seasons, prefers riparian, fresh or saline emergent wetland, and wet meadow habitats. Breeds in riparian thickets of willows, other shrubs, vines, tall herbs, and in fresh or saline emergent vegetation. The Modesto Song Sparrow is endemic to California, where it resides only in the north-central portion of the Central Valley. Highest densities occur in the Butte Sink area of the Sacramento Valley and in the Sacramento–San Joaquin River Delta. *Source:*

<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=10461>

Inclusion Source(s): CNDDDB

CNDDDB Records: 4

Nearest CNDDDB Record: 1 to 3 Miles

Habitat Present: Low Quality

Determination Reason: While populations have dropped by 90% from historical highs, this resident form of the Song Sparrow has been recorded in sparsely-vegetated margins of canals, such as those bordering the Project site. Project site contains limited habitat that could support nesting.

🐦 Tricolored Blackbird

Icteridae > Agelaius tricolor

California Threatened; California Species of Special Concern

Life History: Mostly a resident in California. Common locally throughout Central Valley and in coastal districts from Sonoma County south. Breeds near fresh water, preferably in emergent wetland with tall, dense cattails or tules, but also in thickets of willow, blackberry, wild rose, tall herbs. Feeds in grassland and cropland habitats. Breeds locally in northeastern California. In winter, becomes more widespread along central coast and San Francisco Bay area and is found in portions of the Colorado Desert. Numbers appear to be declining in California. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): CNDDDB; HCP

CNDDDB Records: 2

Nearest CNDDDB Record: < 1 Mile

Habitat Present: Low Quality

Determination Reason: Appropriate breeding habitat not present. Will often forage in agricultural fields, especially in winter.



4.6.2.5 *Taxa With No Potential for Occurrence*

The following 16 special status wildlife taxa from desktop analysis were determined to have **No** potential for occurrence in the Biological Study Area. Likewise, none of these taxa would be expected to occur in the Annexation Area.

Vernal Pool Fairy Shrimp

Branchinectidae > Branchinecta lynchi

Federal Threatened

Life History:

The Vernal Pool Fairy Shrimp inhabits ephemeral pools with clear to tea-colored water. This species has been most commonly observed in grass or mud bottomed swales, earth sump, or basalt flow depression pools in unplowed grasslands. The Vernal Pool Fairy Shrimp has been collected from early December to early May. The water in pools inhabited by this species has a pH averaging 7.0; and low TDS, conductivity, alkalinity, and chloride. Although the Vernal Pool Fairy Shrimp is found at a number of sites, it is not abundant at any of them. It often occurs with other fairy shrimp species, but is never the numerically dominant one. *Source:* <https://www.govinfo.gov/content/pkg/FR-1992-05-08/pdf/FR-1992-05-08.pdf#page=76>

Inclusion Source(s): CNDDDB; IPaC; HCP

CNDDDB Records: 7

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: The majority of CNDDDB records are greater than 5 miles to the northeast, east, and southeast. Appropriate vernal pool habitat is not present on the Project site.

Midvalley Fairy Shrimp

Branchinectidae > Branchinecta mesovallensis

No special status

Life History:

Midvalley Fairy Shrimp are small freshwater crustaceans found in vernal pools, vernal swales, and ephemeral wetlands in the Central Valley of California. They are known to occur in five different vernal pool regions: Southeastern Sacramento Valley, Livermore, Southern Sierra Foothills, San Joaquin Valley, and the Solano-Colusa region. They were only recently documented as an individual species in 2000 due to their similarities to similar species (male Conservancy Fairy Shrimp and female Vernal Pool Fairy Shrimp). Midvalley Fairy Shrimp swim on their backs and use their phyllopods to paddle and extract oxygen and food from the water. *Source:* <https://www.govinfo.gov/content/pkg/FR-2004-01-26/pdf/04-1510.pdf#page=1>

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: None

Habitat Present: Not Present



Determination Reason: Not tracked by the CNDDDB. Appropriate vernal pool habitat is not present on the Project site.

🍃 Vernal Pool Tadpole Shrimp

Triopsidae > *Lepidurus packardii*

Federal Endangered

Life History:

Vernal Pool Tadpole Shrimp inhabits vernal pools and swales containing clear to highly turbid water. The Vernal Pool Tadpole Shrimp is found at 14 vernal pool complexes in the Sacramento Valley from the Vina Plains in Butte County south of the Sacramento area in Sacramento County and west to the Jepson Prairie region of Salano County. The pools inhabited by the Vernal Pool Tadpole Shrimp range in size from 5 square meters (16.4 square ft) in the Mather Air Force Base area of Sacramento County to the 38 hectare (89 acre) Olcott Lake at Jepson Prairie. The pools at Jepson Prairie and Vina Plains have a neutral pH, and very low conductivity, TDS, and alkalinity. These pools are most commonly located in grass bottomed swales of unplowed grasslands in old alluvial soils underlain by hardpan, or in mud-bottomed pools containing highly turbid water. All pools known to be inhabited by this species are filled by winter and spring rains and may last until June. *Source: <https://www.govinfo.gov/content/pkg/FR-1992-05-08/pdf/FR-1992-05-08.pdf#page=76>*

Inclusion Source(s): IPaC; HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Several records in all directions 6-10 miles from the Project site. No appropriate vernal pool habitat within the Project site's boundaries.

🍃 Valley Elderberry Longhorn Beetle

Cerambycidae > *Desmocerus californicus dimorphus*

Federal Threatened

Life History:

Valley elderberry longhorn beetle is a medium sized beetle that is endemic to the Central Valley of California. The beetle is found only in association with its host plant, elderberry (*Sambucus* spp.) and originally occurred in elderberry thickets in moist valley oak woodland along the margins of the Sacramento and San Joaquin Rivers in the Central Valley of California. The habitat of this insect has now largely disappeared throughout much of its former range due to agricultural conversion, levee construction, and stream channelization. The clearing of undergrowth (including elderberry) and planting of lawns has resulted in further habitat degradation. *Source: <https://ecos.fws.gov/ecp/species/7850>*

Inclusion Source(s): CNDDDB; IPaC; HCP

CNDDDB Records: 5

Nearest CNDDDB Record: 1 to 3 Miles

Habitat Present: Not Present



Determination Reason: Numerous records along the Sacramento River 1.5 miles to the southwest. Elderberry not present on the Project site.

🍴 Green Sturgeon - Southern DPS

Acipenseridae > Acipenser medirostris pop. 1

Federal Threatened; California Species of Special Concern

Life History: The Green Sturgeon (*Acipenser medirostris*) is an anadromous fish species that is long-lived and among the most marine oriented sturgeon species in the family Acipenseridae. NMFS has determined green sturgeon are comprised of at least two distinct population segments (DPSs): (1) A Northern DPS consisting of populations originating from coastal watersheds northward of and including the Eel River; and (2) a southern DPS consisting of populations originating from coastal watersheds south of the Eel River, with the only known spawning population in the Sacramento River. Adult Green Sturgeon spawn every 2-4 years. Adult Green Sturgeon begin spawning migrations in late February. Spawning occurs from March to July, with peak activity from mid-April to mid-June. Threats include loss of habitat and spawning grounds due to dams and diversions; habitat degradation from pollution, agricultural runoff, and dredging; and the loss of prey species from pesticide application. *Source:* <https://www.federalregister.gov/documents/2009/10/09/E9-24067/endangered-and-threatened-wildlife-and-plants-final-rulemaking-to-designate-critical-habitat-for-the>

Inclusion Source(s): CH

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.

🍴 Steelhead - Central Valley DPS

Salmonidae > *Oncorhynchus mykiss irideus* pop. 11

Federal Threatened

Life History: Steelhead and rainbow trout are the same species. In general, steelhead refers to the anadromous form of the species. Steelhead typically migrate to marine waters after spending two years in fresh water. They reside in marine waters for typically two or three years prior to returning to their natal stream to spawn as four- or five-year-olds. The Central Valley Distinct Population Segment, or DPS, includes naturally spawned anadromous *O. mykiss* (steelhead) originating below natural and manmade impassable barriers from the Sacramento and San Joaquin Rivers and their tributaries; excludes such fish originating from San Francisco and San Pablo Bays and their tributaries. Main threats to this DPS include habitat degradation and destruction, blockage of freshwater habitats, water allocation problems, the pervasive opportunity for genetic introgression resulting from widespread production of hatchery steelhead and the potential ecological interaction between introduced stocks and native stocks. *Source:*



<https://www.fisheries.noaa.gov/west-coast/endangered-species-conservation/sacramento-river-winter-run-chinook-salmon>

Inclusion Source(s): CNDDDB; CH
CNDDDB Records: 3
Nearest CNDDDB Record: < 1 Mile
Habitat Present: Not Present
Determination Reason: Found in the Sacramento River 1.5 miles to the west.

🍷 Chinook Salmon - Central Valley Spring-Run ESU

Salmonidae > Oncorhynchus tshawytscha pop. 11

Federal Threatened; California Threatened

Life History: Chinook salmon are the largest of the Pacific salmon. Adult Central Valley spring-run Chinook salmon leave the ocean to begin their upstream migration in late January and early February and enter the Sacramento River between March and September, primarily in May and June. Spring-run Chinook salmon generally enter rivers as sexually immature fish and must hold in freshwater for up to several months before spawning. Spawning normally occurs between mid-August and early October, peaking in September. This evolutionarily significant unit, or ESU, includes naturally spawned spring-run Chinook salmon originating from the Sacramento River and its tributaries, and also spring-run Chinook salmon from the Feather River Hatchery Spring-run Chinook Program. The Central Valley spring-run ESU is currently faced with three primary threats: loss of spawning habitat; degradation of the remaining habitat; and genetic introgression with the Feather River Fish Hatchery spring-run strays.
Source: <https://www.fisheries.noaa.gov/west-coast/endangered-species-conservation/central-valley-spring-run-chinook-salmon>

Inclusion Source(s): CH
CNDDDB Records: 0
Nearest CNDDDB Record: None
Habitat Present: Not Present
Determination Reason: Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.

🍷 Chinook Salmon - Sacramento River Winter-Run ESU

Salmonidae > Oncorhynchus tshawytscha pop. 7

Federal Endangered; California Endangered

Life History: Adult winter-run Chinook salmon upstream spawning migration through the Delta and into the lower Sacramento River occurs from December through July, with a peak during the period extending from January through April. Spawning occurs between late-April and mid-August, with a peak in June and July. The Sacramento River winter-run Chinook salmon ESU includes winter-run Chinook salmon spawning naturally in the Sacramento River and its tributaries, as well as winter-run Chinook salmon that are part of the conservation hatchery program at the Livingston Stone National Fish Hatchery. Main threats facing this ESU include a single



population source of small size, habitat loss and degradation, the introduction of non-native predators, and overfishing by commercial and recreational fisheries. *Source: <https://www.fisheries.noaa.gov/west-coast/endangered-species-conservation/sacramento-river-winter-run-chinook-salmon>*

Inclusion Source(s): CH
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Determination Reason: Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.

Delta Smelt

Osmeridae > *Hypomesus transpacificus*

Federal Threatened; California Endangered

Life History: The Delta Smelt is a small fish, endemic to California that only occurs in the San Francisco Estuary. The slender-bodied fish typically reaches about 60-70 mm to a maximum size of about 120 mm (Figures 1, 2 and 3). The Delta Smelt life cycle follows the four seasons—spring spawning in fresh water, summer migration/rearing in the low salinity zone, fall maturation in the low salinity zone, and winter upstream migration shortly before spawning (Figure 4). Most spawning happens in tidally influenced backwater sloughs and channel edgewater. Eggs are adhesive, and thought to be released in batches over firm substrates or sand. Delta Smelt is a euryhaline species, able to tolerate a wide salinity range. *Source: <https://wildlife.ca.gov/Conservation/Fishes/Delta-Smelt>*

Inclusion Source(s): IPaC
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present
Determination Reason: Nearest CNDDDB record is 23 miles southwest. No appropriate riverine habitat is present on or near the Project site.

Longfin Smelt

Osmeridae > *Spirinchus thaleichthys*

Federal Candidate; California Threatened

Life History: Longfin Smelt *Spirinchus thaleichthys* is a small fish in the family Osmeridae found along the Pacific coast of the United States from Alaska to California. In California, Longfin Smelt is historically found in the San Francisco Estuary and the Sacramento/San Joaquin Delta (Bay-Delta), Humboldt Bay, and the estuaries of the Eel River and Klamath River. Spawning occurs from November through May, with a peak from February through April. The causes of decline from northern estuaries are not clearly known, but they are probably similar to those of the Bay-Delta, which include: reduction in freshwater outflows, entrainment losses to water diversion, changes in food organisms, toxic substances, disease,



competition, introduced species, and loss of genetic integrity. *Source:* <https://wildlife.ca.gov/Conservation/Fishes/Longfin-Smelt>

Inclusion Source(s): CNDDDB
CNDDDB Records: 1
Nearest CNDDDB Record: 1 to 3 Miles
Habitat Present: Not Present
Determination Reason: Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.

Sacramento Splittail

Cyprinidae > Pogonichthys macrolepidotus

California Species of Special Concern

Life History: Splittail are large cyprinids and are distinctive in having the upper lobe of the caudal fin larger than the lower lobe. The body shape is elongate with a blunt head. Small barbels may be present on either side of the subterminal mouth. Splittail depend both on brackish-water rearing habitats in the San Francisco Estuary and on floodplain and river-edge spawning habitats immediately above the estuary. Most migrate between these two habitat types on a near annual basis. The Sacramento splittail is endemic to California's Central Valley and was once distributed in lakes and rivers throughout the Central Valley. Threats include reduced outflow and estuary degradation due to damming, competition from invasive species, and habitat degradation from agricultural runoff. *Source:* <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=104370>

Inclusion Source(s): CNDDDB
CNDDDB Records: 1
Nearest CNDDDB Record: 1 to 3 Miles
Habitat Present: Not Present
Determination Reason: Found on the Sacramento River 1.5 miles to the west.

California Red-legged Frog

Ranidae > Rana draytonii

Federal Threatened; California Species of Special Concern

Life History: The California Red-legged Frog inhabits quiet pools of streams, marshes, and occasionally ponds. Occurs along the Coast Ranges from Mendocino County south and in portions of the Sierra Nevada and Cascades ranges, usually below 1200 m (3936 ft). This species was once a subspecies of *Rana aurora*, then known as the Red-legged Frog, and has been elevated to species-level status. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): IPaC
CNDDDB Records: 0
Nearest CNDDDB Record: > 3 Miles
Habitat Present: Not Present



Determination Reason: Nearest CNDDDB records are 38 miles to the east. There is no habitat on or in the vicinity of the Project site. It is unclear why this species was returned in the IPaC search.

Western Spadefoot

Scaphiopodidae > *Spea hammondi*

California Species of Special Concern

Life History: The Western Spadefoot ranges throughout the Central Valley and adjacent foothills, and is usually quite common where it occurs. In the Coast Ranges it is found from Point Conception, Santa Barbara County, south to the Mexican border. Elevations of occurrence extend from near sea level to 1363 m (4460 ft) in the southern Sierra foothills. This species occurs primarily in grasslands, but occasional populations also occur in valley-foothill hardwood woodlands. Some populations persist for a few years in orchard or vineyard habitats. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Nearest CNDDDB record is 13 miles to the northeast.

California Tiger Salamander

Ambystomatidae > *Ambystoma californiense*

Federal Endangered; California Endangered

Life History: Most commonly found in Annual Grassland habitat, but also occurs in the grassy understory of Valley-Foothill Hardwood habitats, and uncommonly along stream courses in Valley-Foothill Riparian habitats. The species occurs from near Petaluma, Sonoma County, east through the Central Valley to Yolo and Sacramento counties and south to Tulare County; and from the vicinity of San Francisco Bay south to Santa Barbara County. They occur at elevations from 3 meters up to 1,054 meters (3,200 feet). *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): IPaC; HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Nearest non-extirpated CNDDDB records are 13 miles to the southwest. While this is an NBHCP Covered Species, it has not been documented in the Natomas Basin.

Least Bell's Vireo

Vireonidae > *Vireo bellii pusillus*



Federal Endangered; California Endangered

Life History: null *Source:*

Inclusion Source(s): CNDDDB

CNDDDB Records: 1

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Single CNDDDB record is from 1877. There is no suitable habitat for this species on or near the Project site, and likely none within the Regional Study Area.

Bank Swallow

Hirundinidae > Riparia riparia

California Threatened

Life History:

A neotropical migrant found primarily in riparian and other lowland habitats in California west of the deserts during the spring-fall period. A spring and fall migrant in the interior, less common on coast; an uncommon and very local summer resident. Casual in southern California in winter; a few winter records along central coast to San Mateo County. In summer, restricted to riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with fine-textured or sandy soils, into which it digs nesting holes. In migration, flocks with other swallows over many open habitats. Range in California estimated to be reduced 50% since 1900. Formerly more common as breeder in California. Now, only approximately 110-120 colonies remain within the state. Perhaps 75% of the current breeding population in California occurs along banks of the Sacramento and Feather rivers in the northern Central Valley. About 50-60 colonies remain along the middle Sacramento River and 15-25 colonies occur along lower Feather River where the river meanders still in a mostly natural state. Other colonies persist along the central coast from Monterey to San Mateo counties, and northeastern California in Shasta, Siskiyou, Lassen, Plumas, and Modoc counties. *Source: California Department of Fish and Wildlife. California Interagency Wildlife Task Group. 2014. CWHR version 9.0 personal computer program. Sacramento, CA.*

Inclusion Source(s): HCP

CNDDDB Records: 0

Nearest CNDDDB Record: > 3 Miles

Habitat Present: Not Present

Determination Reason: Nearest CNDDDB records are along the Sacramento River 7.5 miles northwest of the Project site. There is no habitat on or near the Project site for breeding, nor does the Project site provide suitable foraging habitat. Like many bird species, there is always a possibility of viewing this species in the area as a flyover.



4.7 Other Considerations

4.7.1 Wildlife Movement

Effects on wildlife movement are an important consideration when assessing the potential anthropogenic effects of any project. At a small enough scale, any project or activity can potentially affect the movement of wildlife if any wildlife are present at all. In general, however, the term “wildlife movement corridor” means an area of habitat that is important for the movement of wildlife between larger habitat areas. Wildlife movement corridors are important for maintaining population levels and genetic diversity.

Wildlife require space to roam in search of food, shelter, mates, or for seasonal migration. Fragmentation of wildlife movement from human development can disrupt the normal flow of essential ecosystem functions. The extent of habitat movement requirements is dependent on the taxa and is crucial to the survival of many species. Overall wildlife movement has become restricted due to man-made barriers, such as roads, structures, development, walls or fencing, and even agricultural fields. It is particularly important to maintain habitat and landscape connectivity and wildlife movement between regional habitat blocks for wide-ranging and low-density mammalian carnivores that require a large home range for survival, including Bobcat (*Lynx rufus*), Coyote (*Canis latrans*), and Mountain Lion (*Puma concolor*).

The drainage canals and ditches present in the Biological Study Area and Annexation Area could serve as movement corridors to aquatic or semi-aquatic wildlife species such as Giant Gartersnake and Northwestern Pond Turtle, the latter of which was observed during three of the five Bargas surveys within both Canal-2 and Canal-3. Both ditches and Canal-1 and Canal-2 are all ultimately hydrologically connected to Canal-3, the West Drainage Canal. There are several CNDDDB records within the past 20 years documenting the presence of Giant Gartersnake in the West Drainage Canal. The West Drainage Canal is hydrologically connected to Fisherman’s Lake, located approximately 0.5-mile south of the Project site, where there is a known population of Giant Gartersnake. The West Drainage Canal and other canals have steep banks that may impede use of adjacent uplands by both species. Further, the uplands adjacent to the canals and ditches are heavily disturbed and provide low quality habitat for use in nesting / egg-laying by both species and winter aestivation by Giant Gartersnake. Regardless, the Canal-1, Canal-2 and both ditches (when inundated) may be used by both species for foraging and dispersal.

The Biological Study Area and, by extension, the Annexation Area, does not function as a movement corridor for terrestrial wildlife in general. The Project site contains three large agricultural fields, either fallowed or possibly being utilized for hay production, that are bordered by either paved roads or large drainage canals which functionally serve as barriers to the movement of terrestrial wildlife outside of birds. On all sides of the Project site lie either additional active agricultural fields or urban development which generally do not serve as high quality larger habitat areas which would potentially attract wildlife.

The Biological Study Area and Annexation Area do contain semi-natural and natural vegetation communities that provide foraging habitat for a number of bird species, including Swainson’s Hawk, Northern Harrier, and other avian taxa discussed in **Section 4.6.2** above, year-long including during migration. Both the Biological Study Area and Annexation Area contain limited habitat to support nesting birds. The canals and roads present both would not present a barrier to movement to birds since they can fly over them; however, they do not contain areas of natural land cover with tree and/or shrub canopy and limited anthropogenic disturbances that are continuous with areas of natural land cover beyond to provide a high quality wildlife movement corridor for birds.



4.7.2 Nesting Birds

Birds – including native species protected by the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code – have the potential to nest in nearly any environment, including those heavily altered by anthropogenic activity. There is limited tree and shrub canopy along the canals and ditches within the Biological Study Area and Annexation Area. Depending upon the nature of the agricultural activities and fire management practices within these areas, there may be large areas that would contain tall herbaceous vegetation or bare ground to support bird species with those nesting substrate preferences.

4.7.3 Bird Impact Risk and the Sacramento International Airport



Figure 1. A flight taking off from the Sacramento Airport climbs over the Project site.

The Project site and Annexation Area are located immediately southeast of the Sacramento International Airport (Airport) and adjoining Airport-owned property. The current lack of development surrounding the Airport provides for substantial risk of bird strikes with departing or arriving aircraft, with such large species resident as several species of raptor (e.g., Red-tailed Hawk and Swainson’s Hawk) and numerous waterbirds (e.g., Double-crested Cormorant, Great Blue Heron, and Great Egret). The impact of bird weighing 3 kg (6.6 lb.) with an aircraft is equivalent to a force of 40 tons (Rosenthal 1998). Such collisions are a major wildlife hazard to the aviation industry, costing the global airline industry over \$1.2 billion dollars annually as well as putting passenger safety at risk (Cheng et al. 2015, Uhlfelder 2013). Sacramento International Airport has one of the highest bird/aircraft collision rates in the United States³.

³ <https://www.npr.org/2009/04/27/103530836/pinpointing-airports-with-high-rate-of-bird-strikes>



The Project site and Annexation Area are located within the Federal Aviation Administration’s (FAA) 10,000 foot separation area for wildlife attractants⁴. Wildlife attractants are defined by the FAA⁵ as:

Constructed or natural areas— such as poorly drained locations, detention/retention ponds, roosting habitats on buildings, landscaping, odor-causing rotting organic matter (putrescible waste) disposal operations, wastewater treatment plants, agricultural or aquaculture activities, surface mining, wetlands, or some conservation-based land uses — can provide wildlife with ideal locations for feeding, loafing, reproduction, and escape.

The above conditions represent typical current conditions on the Project site and Annexation Area (see **Figure 1**).

Airport operators are required by the U.S. Department of Transportation’s Federal Aviation Administration (FAA) to conduct Wildlife Hazard Assessments (WHA) and prepare Wildlife Hazard Management Plans (WHMP) when certain criteria are met (FAA 2021). Sacramento International Airport has a WHMP that has been periodically updated per the results of WHA conducted in response to events such as land use changes on and around the airport, including in 2010 in response to new terminal construction on the airport lands and a Natomas Basin levee improvement project nearby the airport (Sacramento County Department of Airports 2015). The WHA identified several actions for the airport to undertake to address wildlife population management, habitat modification, and land use changes.

The WHMP at the Sacramento International Airport is primarily implemented by the biologists of their Wildlife Team in order to alleviate wildlife-aircraft interactions (i.e. bird strikes) to the maximum extent possible. Airport personnel are trained in the avoidance and minimization measures implemented to protect special status wildlife species found on or in proximity to the airport. The lands immediately north and south of the airport (Airport Management Areas) and on the airport itself are managed to minimize attractiveness to wildlife by limiting and/or removing features in the landscape such as dense vegetation cover and aquatic features that could function as habitat for different types of wildlife. Wildlife activity and attractants on and near the airport are monitored by the Wildlife Team biologists. The parcels across from Powerline Road to the west of the Project site are owned by the airport and are monitored and managed per their WHMP.

⁴ <https://emd.saccounty.gov/SEC/Documents/SMF%20Wildlife%20and%20Land%20Use.pdf>

⁵ https://www.faa.gov/documentLibrary/media/Advisory_Circular/150-5200-33C.pdf



5 Effects and Minimization Measures

5.1 Grading Impacts and Avoidance

Current plans for the Project propose direct impacts, via grading, to the entire 340 acres of the Project site. As proposed, Project-related grading would impact the following habitat and land cover types:

- **Perennial Rye Grass Fields** comprise 260.49-acres of the Project site.
- **Upland Mustards or Star-thistle Fields** comprise 69.44-acres of the Project site.
- **Disturbed/Developed** comprise 5.23-acres of the Project site.
- **Open Water** comprise 1.93-acres of the Project site.
- **Poison Hemlock or Fennel Patches** comprise 1.28-acres of the Project site.
- **Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub** comprise 0.53-acres of the Project site.
- **Goodding’s Willow – Red Willow Riparian Woodland and Forest** comprise 0.37-acres of the Project site.
- **Hardstem and California Bulrush Marsh** comprise 0.22-acres of the Project site.
- **Valley Oak Riparian Forest and Woodland** comprise 0.07-acres of the Project site.
- **Cattail Marsh** comprise 0.02-acres of the Project site.

Vegetation impacts are not proposed in the Annexation Area.

5.2 Project Effects on Candidate, Sensitive, or Special Status Species

The Project will need to implement appropriate mitigation measures to avoid effects to special status species, minimize them as much as feasible, or mitigate for unavoidable substantial adverse effects. A discussion of the Project effects on special status species and the need for avoidance, minimization, and mitigation measures is included in the subsections below.

USFWS and CDFW may need to be consulted regarding the potential for the proposed Project to result in the take of listed species and any avoidance, minimization, or mitigation measures suggested by USFWS and CDFW should be implemented.

5.2.1 Special Status Species with No Potential to Occur in the Biological Study Area

As detailed in **Section 4** above, the following 14 special status plant taxa with occurrences in the Regional Study Area were determined to have no potential to occur in the Biological Study Area:

- **Suisun Marsh Aster**: Nearest record is 7.5 miles to the southwest. Outside of species’ known distribution range.
- **Dwarf Downingia**: Nearest CNDDDB records are 3.8 miles to the east. Biological Study Area lacks required habitat components (vernal pool).
- **Legenere**: Nearest CNDDDB record is 5.5 miles to the east. Biological Study Area lacks required habitat components (vernal pool).
- **Heartscale**: Nearest extant occurrence is 25 miles to the southwest. Outside of species’ known distribution range.
- **Brittlescale**: Nearest CNDDDB records are 6.7 miles to the west. Biological Study Area lacks required habitat components (playas).



- **Ferris' Milk-Vetch:** Nearest CNDDDB records are 6.2 miles to the south. Biological Study Area lacks required habitat components (alkaline flats, vernal moist meadows).
- **Alkali Milk-Vetch:** Nearest CNDDDB records are 7.5 miles to the southwest.
- **Delta Tule Pea:** Nearest CNDDDB record is 25 miles to the south. Outside of species' known distribution range.
- **Saline Clover:** Nearest records are 7.5 miles to the west. All records are west and south of the Project site, which may be outside of the range of the species. Biological Study Area lacks required habitat components (salt marsh).
- **Boggs Lake Hedge-Hyssop:** Nearest CNDDDB records are 5.6 miles to the northeast. Biological Study Area lacks required habitat components (lake margins, vernal pools).
- **Colusa Grass:** Nearest CNDDDB records are 13 miles to the southwest. Outside of species' known distribution range.
- **Slender Orcutt Grass:** Nearest record is 20 miles to the southeast. Outside of species' known distribution range.
- **Sacramento Orcutt Grass:** Nearest records are 17 miles to the east. Outside of species' known distribution range.
- **California Alkali Grass:** Nearest CNDDDB records are 7 miles to the west and southwest. Biological Study Area lacks required habitat components (saline flats, mineral springs).

Likewise, the following 16 special status wildlife taxa with occurrences in the Regional Study Area were determined to have no potential to occur in the Biological Study Area:

- **Vernal Pool Fairy Shrimp:** The majority of CNDDDB records are greater than 5 miles to the northeast, east, and southeast. Appropriate vernal pool habitat is not present on the Project site.
- **Midvalley Fairy Shrimp:** Not tracked by the CNDDDB. Appropriate vernal pool habitat is not present on the Project site.
- **Vernal Pool Tadpole Shrimp:** Several records in all directions 6-10 miles from the Project site. No appropriate vernal pool habitat within the Project site's boundaries.
- **Valley Elderberry Longhorn Beetle:** Numerous records along the Sacramento River 1.5 miles to the southwest. Elderberry not present on the Project site.
- **Green Sturgeon - Southern DPS:** Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.
- **Steelhead - Central Valley DPS:** Found in the Sacramento River 1.5 miles to the west.
- **Chinook Salmon - Central Valley Spring-Run ESU:** Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.
- **Chinook Salmon - Sacramento River Winter-Run ESU:** Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.
- **Delta Smelt:** Nearest CNDDDB record is 23 miles southwest. No appropriate riverine habitat is present on or near the Project site.
- **Longfin Smelt:** Occurs in the Sacramento River one mile or more south and west of the Project site. No appropriate riverine habitat is present on or near the Project site.
- **Sacramento Splittail:** Found on the Sacramento River 1.5 miles to the west.



- **California Red-legged Frog:** Nearest CNDDDB records are 38 miles to the east. There is no habitat on or in the vicinity of the Project site. It is unclear why this species was returned in the IPaC search.
- **Western Spadefoot:** Nearest CNDDDB record is 13 miles to the northeast.
- **California Tiger Salamander:** Nearest non-extirpated CNDDDB records are 13 miles to the southwest. While this is an NBHCP Covered Species, it has not been documented in the Natomas Basin.
- **Least Bell's Vireo:** Single CNDDDB record is from 1877. There is no suitable habitat for this species on or near the Project site, and likely none within the Regional Study Area.
- **Bank Swallow:** Nearest CNDDDB records are along the Sacramento River 7.5 miles northwest of the Project site. There is no habitat on or near the Project site for breeding, nor does the Project site provide suitable foraging habitat. Like many bird species, there is always a possibility of viewing this species in the area as a flyover.

These taxa have no potential to be adversely affected by the Project and will not be discussed further.

5.2.2 Special Status Species with Low Potential to Occur in the Biological Study Area

As detailed in **Section 4** above, the following six special status plant taxa with occurrences in the Regional Study Area were determined to have low potential to occur in the Biological Study Area:

- **Pappose Tarplant:** Nearest records are 8.5 miles to the southwest. All records are west and south of the Project site, which may be outside of the range of the species. This species is not expected to occur due to agriculture-related site disturbance. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur in the Project site.
- **Heckard's Pepper-Grass:** Nearest extant occurrence is 7.5 miles to the southwest. This species is not expected to occur due to agriculture-related site disturbance. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur in the Project site.
- **San Joaquin Spearscale:** Nearest records are 7.5 miles to the west. All records are west of the Project site, which may be outside of the range of the species. This species is not expected to occur due to agriculture-related site disturbance. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur in the Project site.
- **Woolly Rose-Mallow:** Nearest record was at the margins of a canal. This species is unlikely to be present because of site disturbance, but cannot be entirely dismissed. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur in the Project site.
- **Palmate-bracted Bird's-Beak:** Nearest records are 7.5 miles west of the Project site, which may be outside of the species' range. This species is unlikely to be present because of site disturbance, but cannot be entirely dismissed. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur in the Project site.
- **Sanford's Arrowhead:** Known to occur along roadside ditches and canals, however, all records are to the east and southeast and the Project site appears to be at the edge or outside of its distribution. The Project has potential to directly affect Sanford's Arrowhead through habitat modification or conversion of Ditch-1 and/or Ditch-2 if this species were to be present at those locations. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.

Likewise, the following 6 special status wildlife taxa with occurrences in the Regional Study Area were determined to have low potential to occur in the Biological Study Area:



- **Monarch - California Overwintering Population:** Nearest CNDDDB records are 38 miles to the southwest. As a migratory species with flight capability, has potential to occur anywhere during movements. Unlikely to be resident on the Project site due to agricultural land uses and lack of suitable host plants. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur on the Project site.
- **Cackling Goose:** Nearest CNDDDB record is 28 miles to the north. While this is an NBHCP Covered Species, it has not been recorded within the Natomas Basin. Sometimes occurs singly or in small numbers with more numerous Canada Geese, which will often feed in agricultural fields, especially during winter months. Avoidance, minimization, or mitigation measures are not recommended for this species as it is highly unlikely to occur on the Project site.
- **White-faced Ibis:** Nearest CNDDDB records are 8 miles to west, though also present in significant numbers at Yolo Bypass 5 miles to the southwest. Has some potential to be observed on the Project site at the margins of canals or adjacent agricultural areas for foraging. Project site does not contain habitat to support nesting. Avoidance, minimization, or mitigation measures are not recommended for this species as it highly unlikely to occur on the Project and is anticipated to avoid foraging on adjacent lands and forage elsewhere while construction disturbance is occurring.
- **Loggerhead Shrike:** Under-reported in the CNDDDB, the nearest records are more than 50 miles distant. Occurs sparingly in the Natomas Basin. Unlikely to be present on the Project site due to lack of scrubby habitat which is normally present in preferred areas. In the unlikely event this species would be nesting within the Biological Study Area, the Project has potential to directly affect the success of nesting Loggerhead Shrike through destruction of active nests and young or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.
- **Song Sparrow (Modesto Population):** While populations have dropped by 90% from historical highs, this resident form of the Song Sparrow has been recorded in sparsely-vegetated margins of canals, such as those bordering the Project site. Project site contains limited habitat that could support nesting. In the unlikely event this species would be nesting within the Biological Study Area, the Project has potential to directly affect the success of nesting Song Sparrow through destruction of active nests and young or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.
- **Tricolored Blackbird:** Appropriate breeding habitat not present. Will often forage in agricultural fields, especially in winter. Avoidance, minimization, or mitigation measures are not recommended for this species as it highly unlikely to occur on the Project and is anticipated to avoid foraging on adjacent lands and forage elsewhere while construction disturbance is occurring.

5.2.3 Special Status Species with Moderate Potential to Occur in the Biological Study Area

As detailed in **Section 4** above, there are no special status plant taxa with occurrences in the Regional Study Area that were determined to have moderate potential to occur in the Biological Study Area.

The following one special status wildlife taxa with occurrences in the Regional Study Area were determined to have moderate potential to occur in the Biological Study Area:

- **Burrowing Owl:** Most regional records are east of Highway 99. There are, however, recent CNDDDB records from the Sacramento International Airport. Has the potential to occur widely during migration and winter in appropriate open habitats and disturbed areas. The Biological Study Area contains some open disturbed areas, primarily in the construction staging area along the south side of Bayou Way and west of Metro Air Parkway, that provide marginal habitat for this species; however, existing suitable burrows and ground-squirrels were not observed. In the event this species would be utilizing burrows within the Biological Study Area, the Project has potential to directly affect



Burrowing Owl through destruction of burrows containing overwintering or nesting individuals or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.

5.2.4 Special Status Species with High Potential to Occur in the Biological Study Area

As detailed in **Section 4** above, there are no special status plant taxa with occurrences in the Regional Study Area that were determined to have high potential to occur in the Biological Study Area.

The following one special status wildlife taxa with occurrences in the Regional Study Area were determined to have high potential to occur in the Biological Study Area:

- **White-tailed Kite:** The Project site contains foraging habitat that could support this species; however, nesting habitat is limited and composed of the relatively few Goodding's Black Willow, Valley Oak, and other trees along the canal and ditch banks. In the event this species would be nesting within the Biological Study Area, the Project has potential to directly affect the success of nesting White-tailed Kite through destruction of pre-existing nests, active nests, and young or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.

5.2.5 Special Status Species Present in the Biological Study Area

As detailed in **Section 4** above, there are no special status plant taxa that were determined to be present in the Biological Study Area.

The following 4 special status wildlife taxa were determined to be present in the Biological Study Area:

- **Giant Gartersnake:** The species was not observed during any of Bargas' five surveys. There are several CNDDB records within the past 20 years documenting the presence of Giant Gartersnake in the West Drainage Canal in the vicinity of the Project site. The West Drainage Canal is hydrologically connected to Fisherman's Lake, located approximately 0.5-mile south of the Project site, where there is a known population of Giant Gartersnake. Habitat for this species in the Biological Study Area is best described as marginal as it contains some of the elements required by this species and could support transient individuals. Habitat in the Biological Study Area consists of interconnected drainage canals (i.e. Canal-1, Canal-2, Canal-3/West Drainage Canal). These canals are likely inundated during the summer as they collect irrigation and storm water run-off from surround lands during the growing season. All canals were observed to contain some cover of emergent aquatic vegetation dominated by Floating Water Primrose (*Ludwigia peploides*), with small areas of Cattail, and Common Tule. Cover of these emergent aquatic species was low at the time of the April survey. However, large areas of open water had remnants of Floating Water Primrose from the previous growing season indicating that cover of this species may be substantial mid-summer. Much of the canal banks are vertical and undercut with few visible burrows suitable for this species. The top of the canal banks are highly compacted and show evidence of repeated mowing and grading along many reaches. No burrows capable of supporting overwintering Giant Gartersnake were observed during the April survey. Habitat in the Biological Study Area is unlikely to support a permanent population due to its lack of suitable burrows and high levels of vegetation management. However, the marginal habitat present provides connectivity to occupied sites to the north and south of the Biological Study Area within the American Basin. Though not ideal for Giant Gartersnake, the canals within Biological Study Area could support transient individuals on a temporary basis. In the event this species would be present in the uplands adjacent to the canals, the Project has potential to directly affect Giant Gartersnake through crushing of individuals beneath heavy machinery or other equipment and/or entombed in or excavated from their winter burrows. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.



- **Northwestern Pond Turtle:** Was detected during three of Bargas' five surveys in Canal-2 and Canal-3 (West Drainage Canal) within the Biological Study Area. Individuals were observed sunning on floating debris and/or vegetation within the canals. Adjacent upland habitats are marginal for this species as much of the canal banks are vertical and undercut. Further, the top of the canal banks are highly compacted and show evidence of repeated mowing and grading along many reaches. In the event this species would be present in the uplands adjacent to the canals, the Project has potential to directly affect Northwestern Pond Turtle through crushing of individuals or nests beneath heavy machinery or other equipment and/or nests being buried/covered by spoils / fill or excavated. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.
- **Northern Harrier:** Observed foraging on and flying over the Project site on two of the five surveys conducted by Bargas biologists. In the event this species would be nesting within the Biological Study Area, the Project has potential to directly affect the success of nesting Northern Harrier through destruction of active nests and young or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.
- **Swainson's Hawk:** Present and observed during April and May surveys. Nesting activity was not detected, however, a nesting survey has not been conducted. In the event this species would be nesting within the Biological Study Area, the Project has potential to directly affect the success of nesting Swainson's Hawk through destruction of pre-existing nests, active nests, and young or visual and/or audible disturbance from construction activities. The Project also has potential to affect this species through the loss of suitable foraging habitat. Nesting habitat is limited in the Biological Study Area. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this species.

5.3 Project Effects on Riparian Habitat or Other Sensitive Natural Community

The desktop review identified Northern Claypan Vernal Pool and Great Valley Cottonwood Riparian Forest as the only sensitive vegetation communities recorded within the area analyzed. As described previously in **Section 4.4.2**, none of these communities are present within the Biological Study Area.

Gooding's Willow – Red Willow Riparian Woodland and Forest and Valley Oak Riparian Forest and Woodland are riparian habitats that comprise a combined total of 0.44 acres of the Project site. The Project proposes direct impacts to 0.44 acres, or 100% of these riparian habitats combined within the Project site. Accordingly, appropriate mitigation measures are recommended for this sensitive riparian habitat.

Hardstem and California Bulrush Marsh is a freshwater wetland habitat that comprises 0.02 acres of the Project site. The Project proposes direct impacts to 0.02 acres, or 100% of this freshwater wetland habitat within the Project site. Accordingly, appropriate mitigation measures are recommended for this sensitive wetland habitat.

5.4 Project Effects on State or Federally Protected Wetlands

The proposed Project is likely to have adverse effects, either directly or through indirect impacts to downstream water quality, to state and federally protected aquatic resources. Current plans for the Project propose direct impacts, via grading, to the entire 340 acres of the Project site. Based upon the aquatic resources delineation conducted for the Project, a total of 1.501 acres (10,688 linear feet) of tributary waters and 0.58 acres (4,736 linear feet) of other waters potentially subject to USACE jurisdiction pursuant to CWA Section 404 are present within the proposed grading limits of the Project. These acreages have not yet been formally verified by USACE and may be subject to change. **Exhibit 5** displays each feature identified within the Project site with the proposed grading limit indicated by the hatching.



These features are also potential tributary waters and other waters of the state subject to Central Valley RWQCB (CVRWQCB) jurisdiction and aquatic / riparian habitat subject to CDFW jurisdiction pursuant to CWA Section 401 and California Fish and Game Code Section 1600 respectively.

Consultations with the agencies is recommended and may result in the need to acquire one or more of the following permits and regulatory approvals:

- **USACE CWA 404 Permit:** Authorization for the fill of jurisdictional waters of the U.S. shall be secured prior to placing any fill in jurisdictional wetlands from the USACE through the CWA Section 404 permitting process. Timing for compliance with the specific conditions of the 404 permit shall be per conditions specified by the USACE as part of permit issuance. It is expected that the Project would require an Individual Permit because wetland impacts would total more than 0.5 acre.
- **CVRWQCB CWA Section 401 Water Quality Certification:** Prior to construction in any areas containing wetlands or waters of the U.S. and state, the Applicant shall obtain a water quality certification pursuant to Section 401 of the CWA for the project. Any measures required as part of the issuance of the water quality certification shall be implemented.
- **CDFW Section 1602 LSAA:** The Applicant shall obtain a Streambed Alteration Agreement under Section 1600 et seq. of the California Fish & Game Code for impacts to Waters of the State as defined under Section 1602 of the California Fish & Game Code. Any measures required as part of the issuance of the Agreement shall be implemented.
- **CVRWQCB Waste Discharge Requirements:** The Applicant shall file a report of waste discharge with the CVRWQCB for activities affecting wetlands or waters of the state not also under USACE jurisdiction, if applicable.

5.5 Project Effects on Wildlife Movement and Nursery Sites

As discussed in **Section 4.7**, the Biological Study Area does not function as a wildlife corridor to terrestrial wildlife due to being bounded by physical barriers (i.e. canals, roads, urban development, agricultural fields). The canals and ditches present in the Biological Study Area could serve as movement corridors for aquatic and semi-aquatic species (i.e. Giant Gartersnake, Northwestern Pond Turtle). Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended for this potential wildlife corridor. Although there are no barriers blocking the movement of birds into and out of the Biological Study Area, there are no habitats present that could provide sufficient shelter and other resources that are contiguous with similar habitats beyond the Biological Study Area to provide a high quality wildlife movement corridor for birds. The Project site does contain foraging habitat that could attract a variety of bird species to the Project site. The development of the Project will modify the habitats present and significantly reduce the attractiveness of the Project site to birds moving about the vicinity searching for foraging opportunities. This would overall potentially benefit the operations of the nearby Sacramento International Airport by possibly reducing the number of birds flying through the airport's managed airspace present directly adjacent to the Project site.

The Project could impact nesting birds protected by the federal MBTA. Accordingly, appropriate avoidance, minimization, or mitigation measures are recommended to address impacts to nesting raptors and other birds in the Project site or immediately adjacent properties.



5.6 Project Effects on the Provisions of an Adopted Habitat Conservation Plan

The Project would result in development within the NBHCP. The NBHCP has an overall goal of creating a multi-species conservation program to mitigate impacts to covered species that may result from development in the Natomas Basin. Accordingly, appropriate avoidance, minimization, or mitigation measures that are consistent with the goals of the HCP are recommended for the Project.

5.7 Project Effects on Local Policies or Ordinances Protecting Biological Resources

As previously described in **Section 2.4**, the City of Sacramento County has one ordinance pertaining to protection of biological resources:

- **Tree Planting, Maintenance, and Conservation Ordinance:** the City's tree ordinance is intended "to provide for the conservation of existing tree resources; to optimize tree canopy coverage throughout the city while recognizing individual rights to develop and make reasonable use of private property consistent with the general plan; and to provide clear standards for protection, removal, and replacement of city trees and private protected trees" (City Code § 12.56.010). The Applicant will comply with the ordinance by implementing one of the following:
 - Minor modifications to the grading plan to avoid impacting protected trees.
 - Tree replacement on-site or in an off-site reserve, or payment of an in-lieu fee, following the City's requirements as defined in City Code § 12.56.060.



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Appendix A. Floral & Faunal Compendia

Bargas has documented the presence of 53 plant taxa and 51 wildlife taxa. Taxa are presented in taxonomic order.

Plants

Common Name	Scientific Name	Family	Major Clade	Nativity
Duckweed species	Lemna sp.	Araceae	Monocots	Native
Cattail species	Typha sp.	Typhaceae	Monocots	Native
Bristly Ox-Tongue	Helminthotheca echioides	Asteraceae	Eudicots	Naturalized
Rough Cat's-Ear	Hypochaeris radicata	Asteraceae	Eudicots	Naturalized
Hairy Hawkbit	Leontodon saxatilis	Asteraceae	Eudicots	Naturalized
Milk Thistle	Silybum marianum	Asteraceae	Eudicots	Naturalized
Common Fiddleneck	Amsinckia intermedia	Boraginaceae	Eudicots	Native
Black Mustard	Brassica nigra	Brassicaceae	Eudicots	Naturalized
Perennial Pepperweed	Lepidium latifolium	Brassicaceae	Eudicots	Naturalized
Jointed Charlock	Raphanus raphanistrum	Brassicaceae	Eudicots	Naturalized
Sticky Mouse-Ear Chickweed	Cerastium glomeratum	Caryophyllaceae	Eudicots	Naturalized
Western Poison Oak	Toxicodendron diversilobum	Anacardiaceae	Eudicots	Native
Bindweed, Orchard Morning-Glory	Convolvulus arvensis	Convolvulaceae	Eudicots	Naturalized
Poison Hemlock	Conium maculatum	Apiaceae	Eudicots	Naturalized
Wild Teasel	Dipsacus fullonum	Dipsacaceae	Eudicots	Naturalized
Doveweed, Turkey-Mullein	Croton setiger	Euphorbiaceae	Eudicots	Native
Fennel	Foeniculum vulgare	Apiaceae	Eudicots	Naturalized
Bird's Foot Trefoil	Lotus corniculatus	Fabaceae	Eudicots	Naturalized
Valley Sky Lupine	Lupinus nanus	Fabaceae	Eudicots	Native
Black Medick	Medicago lupulina	Fabaceae	Eudicots	Naturalized
California Burclover	Medicago polymorpha	Fabaceae	Eudicots	Naturalized



Common Name	Scientific Name	Family	Major Clade	Nativity
Rose Clover	<i>Trifolium hirtum</i>	Fabaceae	Eudicots	Naturalized
Hairy Vetch, Winter Vetch	<i>Vicia villosa</i>	Fabaceae	Eudicots	Naturalized
Valley Oak, Roble	<i>Quercus lobata</i>	Fagaceae	Eudicots	Native
Broad Leaf Filaree	<i>Erodium botrys</i>	Geraniaceae	Eudicots	Naturalized
Short Fruited Filaree	<i>Erodium brachycarpum</i>	Geraniaceae	Eudicots	Naturalized
Hyssop Loosestrife	<i>Lythrum hyssopifolia</i>	Lythraceae	Eudicots	Naturalized
Little Mallow	<i>Malva parviflora</i>	Malvaceae	Eudicots	Naturalized
Red Maids	<i>Calandrinia menziesii</i>	Montiaceae	Eudicots	Native
Miner's Lettuce	<i>Claytonia parviflora</i>	Montiaceae	Eudicots	Native
Edible Fig	<i>Ficus carica</i>	Moraceae	Eudicots	Naturalized
White Mulberry	<i>Morus alba</i>	Moraceae	Eudicots	Naturalized
Floating Water Primrose	<i>Ludwigia peploides</i>	Onagraceae	Eudicots	Naturalized
Knotweed, Knotgrass	<i>Polygonum aviculare</i>	Polygonaceae	Eudicots	Naturalized
Curly Dock	<i>Rumex crispus</i>	Polygonaceae	Eudicots	Naturalized
Himalayan Blackberry	<i>Rubus armeniacus</i>	Rosaceae	Eudicots	Naturalized
Alamo Or Fremont Cottonwood	<i>Populus fremontii</i> subsp. <i>fremontii</i>	Salicaceae	Eudicots	Native
Goodding's Black Willow	<i>Salix gooddingii</i>	Salicaceae	Eudicots	Native
Italian Thistle	<i>Carduus pycnocephalus</i> subsp. <i>pycnocephalus</i>	Asteraceae	Eudicots	Naturalized
Yellow Star-Thistle	<i>Centaurea solstitialis</i>	Asteraceae	Eudicots	Naturalized
Tall Flatsedge	<i>Cyperus eragrostis</i>	Cyperaceae	Monocots	Native
Common Tule	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	Cyperaceae	Monocots	Native
Chicory	<i>Cichorium intybus</i>	Asteraceae	Eudicots	Naturalized
Wild Oat	<i>Avena fatua</i>	Poaceae	Monocots	Naturalized



Common Name	Scientific Name	Family	Major Clade	Nativity
Ripgut Grass	<i>Bromus diandrus</i>	Poaceae	Monocots	Naturalized
Bermuda Grass	<i>Cynodon dactylon</i>	Poaceae	Monocots	Naturalized
Hairy Crab Grass	<i>Digitaria sanguinalis</i>	Poaceae	Monocots	Naturalized
Rye Grass	<i>Festuca perennis</i>	Poaceae	Monocots	Naturalized
Annual Beard Grass	<i>Polypogon monspeliensis</i>	Poaceae	Monocots	Naturalized
Little-Seeded Canary Grass	<i>Phalaris minor</i>	Poaceae	Monocots	Naturalized
Johnson Grass	<i>Sorghum halepense</i>	Poaceae	Monocots	Naturalized
Common Wheat	<i>Triticum aestivum</i>	Poaceae	Monocots	Naturalized
Walnut species	<i>Juglans</i> sp.	Juglandaceae	Eudicots	—

Wildlife

Common Name	Scientific Name	Family	Introduced/Endemic
American Bullfrog	<i>Lithobates catesbeianus</i>	Ranidae (True Frogs)	Introduced
Western Fence Lizard	<i>Sceloporus occidentalis</i>	Phrynosomatidae (Zebra-tailed, Earless, Fringe-toed, Spiny, Tree, Side-blotched, and Horned Lizards)	—
Gopher Snake	<i>Pituophis catenifer</i>	Colubridae (Harmless Egg-Laying Snakes)	—
Northwestern Pond Turtle	<i>Actinemys marmorata</i>	Emydidae (Box and Basking Turtles)	—
Red-eared Slider	<i>Trachemys scripta elegans</i>	Emydidae (Box and Basking Turtles)	Introduced
Canada Goose	<i>Branta canadensis</i>	Anatidae (Ducks, Geese, and Swans)	—
Mallard	<i>Anas platyrhynchos</i>	Anatidae (Ducks, Geese, and Swans)	—
Rock Pigeon	<i>Columba livia</i>	Columbidae (Pigeons and Doves)	Introduced



Common Name	Scientific Name	Family	Introduced/Endemic
Mourning Dove	Zenaida macroura	Columbidae (Pigeons and Doves)	—
White-throated Swift	Aeronautes saxatalis	Apodidae (Swifts)	—
Anna's Hummingbird	Calypte anna	Trochilidae (Hummingbirds)	—
Killdeer	Charadrius vociferus	Charadriidae (Lapwings and Plovers)	—
Double-crested Cormorant	Phalacrocorax auritus	Phalacrocoracidae (Cormorants)	—
Great Blue Heron	Ardea herodias	Ardeidae (Hérons, Bitterns, and Allies)	—
Great Egret	Ardea alba	Ardeidae (Hérons, Bitterns, and Allies)	—
Snowy Egret	Egretta thula	Ardeidae (Hérons, Bitterns, and Allies)	—
Turkey Vulture	Cathartes aura	Cathartidae (New World Vultures)	—
Northern Harrier	Circus hudsonius	Accipitridae (Hawks, Kites, Eagles, and Allies)	—
Cooper's Hawk	Accipiter cooperii	Accipitridae (Hawks, Kites, Eagles, and Allies)	—
Swainson's Hawk	Buteo swainsoni	Accipitridae (Hawks, Kites, Eagles, and Allies)	—
Red-tailed Hawk	Buteo jamaicensis	Accipitridae (Hawks, Kites, Eagles, and Allies)	—
Northern Flicker	Colaptes auratus	Picidae (Woodpeckers and Allies)	—
American Kestrel	Falco sparverius	Falconidae (Caracaras and Falcons)	—
Western Kingbird	Tyrannus verticalis	Tyrannidae (Tyrant Flycatchers)	—
Pacific-slope Flycatcher	Empidonax difficilis	Tyrannidae (Tyrant Flycatchers)	—



Common Name	Scientific Name	Family	Introduced/Endemic
Black Phoebe	Sayornis nigricans	Tyrannidae (Tyrant Flycatchers)	—
Say's Phoebe	Sayornis saya	Tyrannidae (Tyrant Flycatchers)	—
American Crow	Corvus brachyrhynchos	Corvidae (Crows and Jays)	—
Common Raven	Corvus corax	Corvidae (Crows and Jays)	—
Tree Swallow	Tachycineta bicolor	Hirundinidae (Swallows)	—
Northern Rough-winged Swallow	Stelgidopteryx serripennis	Hirundinidae (Swallows)	—
Barn Swallow	Hirundo rustica	Hirundinidae (Swallows)	—
Cliff Swallow	Petrochelidon pyrrhonota	Hirundinidae (Swallows)	—
Bewick's Wren	Thryomanes bewickii	Troglodytidae (Wrens)	—
Northern Mockingbird	Mimus polyglottos	Mimidae (Mockingbirds and Thrashers)	—
European Starling	Sturnus vulgaris	Sturnidae (Starlings)	Introduced
American Robin	Turdus migratorius	Turdidae (Thrushes)	—
House Finch	Haemorhous mexicanus	Fringillidae (Fringilline and Cardueline Finches and Allies)	—
Lesser Goldfinch	Spinus psaltria	Fringillidae (Fringilline and Cardueline Finches and Allies)	—
White-crowned Sparrow	Zonotrichia leucophrys	Passerellidae (New World Sparrows)	—
Savannah Sparrow	Passerculus sandwichensis	Passerellidae (New World Sparrows)	—
Western Meadowlark	Sturnella neglecta	Icteridae (Blackbirds)	—
Bullock's Oriole	Icterus bullockii	Icteridae (Blackbirds)	—
Red-winged Blackbird	Agelaius phoeniceus	Icteridae (Blackbirds)	—
Brown-headed Cowbird	Molothrus ater	Icteridae (Blackbirds)	—
Brewer's Blackbird	Euphagus cyanocephalus	Icteridae (Blackbirds)	—



Common Name	Scientific Name	Family	Introduced/Endemic
Common Yellowthroat	<i>Geothlypis trichas</i>	Parulidae (Wood-Warblers)	—
Yellow-rumped Warbler	<i>Setophaga coronata</i>	Parulidae (Wood-Warblers)	—
Brush Rabbit	<i>Sylvilagus bachmani</i>	Leporidae (Hares and Rabbits)	—
Black-tailed Jackrabbit	<i>Lepus californicus</i>	Leporidae (Hares and Rabbits)	—
Northern River Otter	<i>Lontra canadensis</i>	Mustelidae (Weasels, Otters, and Badgers)	—



Appendix B. Special Status Biological Resource Summary

The research conducted for this report included a desktop review of numerous resource databases in order to determine a list of special status biological resources, including 20 plant taxa and 28 wildlife taxa to be analyzed for potential occurrence. The result of this analysis is summarized in the tables below. Table column definitions:

- **Common Name:** The most widely-accepted English common name for the taxon.
- **Scientific Name:** The most widely-accepted scientific name for the taxon.
- **Source(s):** The desktop review source(s) that contained this taxon.
- **Legal Status:** The legal protected status of the taxon. These terms are described in detail in the Methods section of this report.
- **Habitat:** The quality of the habitat on the Project site for supporting the taxon. Classification of habitats is described in detail in the Methods section of this report.
- **Soils:** The suitability of soils on the Project site to support the taxon, if known. Classification of soils is described in detail in the Methods section of this report.
- **Potential:** The potential for the taxon to be found on the Project site. Ranking of potential is described in detail in the Methods section of this report.

Plants

Common Name	Scientific Name	Source(s)	Legal Status	Habitat	Soils	Potential
Pappose Tarplant	<i>Centromadia parryi</i> ssp. <i>parryi</i>	CNPS	CRPR 1B.2	Low Quality	Unknown	Low
Suisun Marsh Aster	<i>Symphotrichum lentum</i>	CNPS	CRPR 1B.2	Not Present	Unknown	None
Heckard's Pepper-Grass	<i>Lepidium latipes</i> var. <i>heckardii</i>	CNPS	CRPR 1B.2	Low Quality	Unknown	Low
Dwarf Downingia	<i>Downingia pusilla</i>	CNDDDB, CNPS	CRPR 2B.2	Not Present	Unknown	Low
Legenere	<i>Legenere limosa</i>	CNPS, HCP	CRPR 1B.1	Not Present	Unknown	None
Heartscale	<i>Atriplex cordulata</i> var. <i>cordulata</i>	CNPS	CRPR 1B.2	Not Present	Unknown	None
San Joaquin Spearscale	<i>Extriplex joaquinana</i>	CNPS	CRPR 1B.2	Low Quality	Unknown	Low
Brittlescale	<i>Atriplex depressa</i>	CNPS	CRPR 1B.2	Not Present	Unknown	None
Alkali Milk-Vetch	<i>Astragalus tener</i> var. <i>tener</i>	CNPS	CRPR 1B.2	Not Present	Unknown	None



Common Name	Scientific Name	Source(s)	Legal Status	Habitat	Soils	Potential
Ferris' Milk-Vetch	<i>Astragalus tener</i> var. <i>ferrisiae</i>	CNPS	CRPR 1B.1	Not Present	Unknown	Low
Delta Tule Pea	<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	HCP	CRPR 1B.2	Not Present	Unknown	None
Saline Clover	<i>Trifolium hydrophilum</i>	CNPS	CRPR 1B.2	Not Present	Unknown	Low
Woolly Rose-Mallow	<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	CNDDDB, CNPS	CRPR 1B.2	Low Quality	Unknown	Low
Palmate-bracted Bird's-Beak	<i>Chloropyron palmatum</i>	CNPS	FE, CE, CRPR 1B.1	Low Quality	Unknown	Low
Boggs Lake Hedge-Hyssop	<i>Gratiola heterosepala</i>	CNPS, HCP	CE, CRPR 1B.2	Not Present	Unknown	None
Sanford's Arrowhead	<i>Sagittaria sanfordii</i>	CNDDDB, CNPS, HCP	CRPR 1B.2	Low Quality	Unknown	Low
Colusa Grass	<i>Neostapfia colusana</i>	HCP	FT, CE, CRPR 1B.1	Not Present	Unknown	None
Slender Orcutt Grass	<i>Orcuttia tenuis</i>	HCP	FT, CE, CRPR 1B.1	Not Present	Unknown	None
Sacramento Orcutt Grass	<i>Orcuttia viscida</i>	HCP	FE, CE, CRPR 1B.1	Not Present	No	None
California Alkali Grass	<i>Puccinellia simplex</i>	CNPS	CRPR 1B.2	Not Present	Unknown	None

Wildlife

Common Name	Scientific Name	Source(s)	Legal Status	Habitat	Potential
Vernal Pool Fairy Shrimp	<i>Branchinecta lynchi</i>	CNDDDB; IPaC; HCP	Federal Threatened	Not Present	None
Midvalley Fairy Shrimp	<i>Branchinecta mesovallensis</i>	HCP	—	Not Present	None
Vernal Pool Tadpole Shrimp	<i>Lepidurus packardi</i>	IPaC; HCP	Federal Endangered	Not Present	None
Valley Elderberry Longhorn Beetle	<i>Desmocerus californicus dimorphus</i>	CNDDDB; IPaC; HCP	Federal Threatened	Not Present	None



Common Name	Scientific Name	Source(s)	Legal Status	Habitat	Potential
Monarch - California Overwintering Population	<i>Danaus plexippus</i> pop. 1	IPaC	Federal Candidate	Low Quality	Low
Green Sturgeon - Southern DPS	<i>Acipenser medirostris</i> pop. 1	CH	Federal Threatened; California Species of Special Concern	Not Present	None
Steelhead - Central Valley DPS	<i>Oncorhynchus mykiss irideus</i> pop. 11	CNDDDB; CH	Federal Threatened	Not Present	None
Chinook Salmon - Central Valley Spring-Run ESU	<i>Oncorhynchus tshawytscha</i> pop. 11	CH	Federal Threatened; California Threatened	Not Present	None
Chinook Salmon - Sacramento River Winter-Run ESU	<i>Oncorhynchus tshawytscha</i> pop. 7	CH	Federal Endangered; California Endangered	Not Present	None
Delta Smelt	<i>Hypomesus transpacificus</i>	IPaC	Federal Threatened; California Endangered	Not Present	None
Longfin Smelt	<i>Spirinchus thaleichthys</i>	CNDDDB	Federal Candidate; California Threatened	Not Present	None
Sacramento Splittail	<i>Pogonichthys macrolepidotus</i>	CNDDDB	California Species of Special Concern	Not Present	None
California Red-legged Frog	<i>Rana draytonii</i>	IPaC	Federal Threatened; California Species of Special Concern	Not Present	None
Western Spadefoot	<i>Spea hammondii</i>	HCP	California Species of Special Concern	Not Present	None
California Tiger Salamander	<i>Ambystoma californiense</i>	IPaC; HCP	Federal Endangered; California Endangered	Not Present	None
Giant Gartersnake	<i>Thamnophis gigas</i>	CNDDDB; IPaC; HCP	Federal Threatened; California Threatened	Medium Quality	Present
Northwestern Pond Turtle	<i>Actinemys marmorata</i>	CNDDDB; Bargas; HCP	California Species of Special Concern	Medium Quality	Present
Cackling Goose	<i>Branta hutchinsii</i>	HCP	—	Low Quality	Low
White-faced Ibis	<i>Plegadis chihi</i>	HCP	—	Low Quality	Low
White-tailed Kite	<i>Elanus leucurus</i>	CNDDDB	California Fully Protected	High Quality	High
Northern Harrier	<i>Circus hudsonius</i>	Bargas	California Species of Special Concern	High Quality	Present
Swainson's Hawk	<i>Buteo swainsoni</i>	CNDDDB; Bargas; HCP	California Threatened	High Quality	Present



Common Name	Scientific Name	Source(s)	Legal Status	Habitat	Potential
Burrowing Owl	<i>Athene cunicularia</i>	CNDDB; HCP	California Species of Special Concern	Medium Quality	Moderate
Least Bell's Vireo	<i>Vireo bellii pusillus</i>	CNDDB	Federal Endangered; California Endangered	Not Present	None
Loggerhead Shrike	<i>Lanius ludovicianus</i>	HCP	California Species of Special Concern	Low Quality	Low
Bank Swallow	<i>Riparia riparia</i>	HCP	California Threatened	Not Present	None
Song Sparrow (Modesto Population)	<i>Melospiza melodia</i>	CNDDB	California Species of Special Concern	Low Quality	Low
Tricolored Blackbird	<i>Agelaius tricolor</i>	CNDDB; HCP	California Threatened; California Species of Special Concern	Low Quality	Low



Appendix C. Site Photographs



Photo 1. Representative photo of Perennial Rye Grass Field vegetation community within the Project site, with an adjacent strip of Upland Mustard or Star-thistle Fields along the disturbed / developed road (Bayou Way) and shoulder; looking south.



Photo 2. Representative photo of Upland Mustard or Star-thistle Fields within the Biological Study Area, adjacent to a developed paved access road and open water in Ditch-2. Interstate 5 is visible on the right of the photo; looking west.



Photo 3. The disturbed / developed construction yard present within the Project site on the south side of Bayou Way and west of Metro Air Parkway; looking southwest.



Photo 4. Representative photo of open water (Canal-3, West Drainage Canal) adjacent to the Project site in the Biological Study Area, with Poison Hemlock or Fennel Patch vegetation community present in the foreground and a strip of Valley Oak Riparian Forest and Woodland present in the background; looking west.



Photo 5. Representative view of Goodding's Willow – Red Willow Riparian Woodland and Forest within the Project site, adjacent to the banks of Canal-2 (open water); looking southwest.



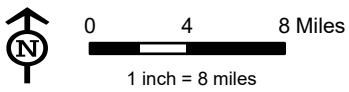
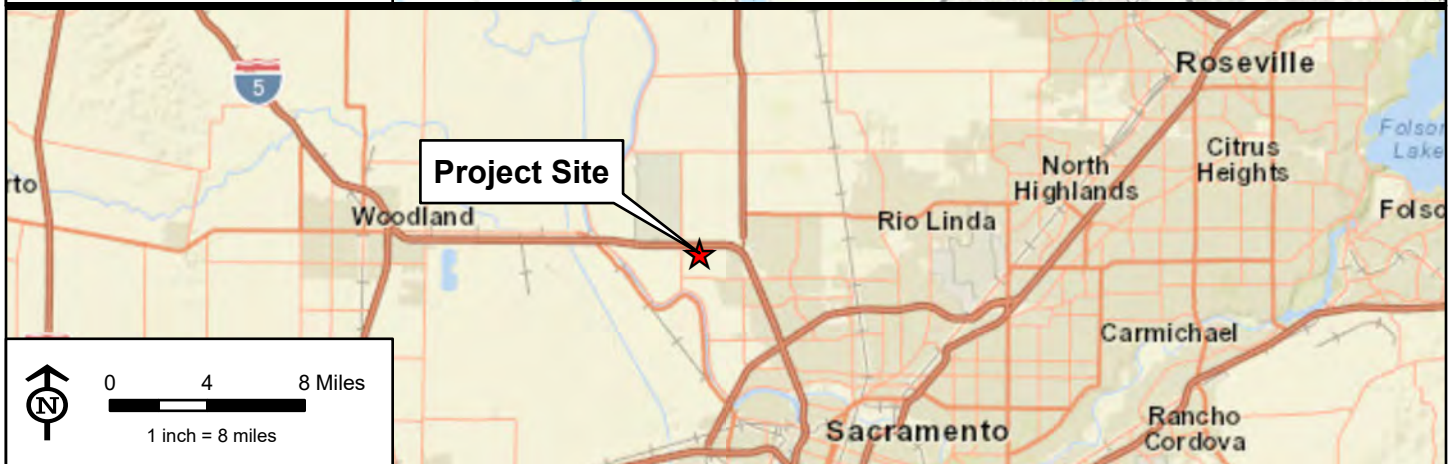
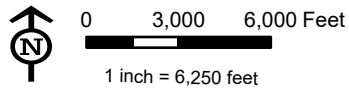
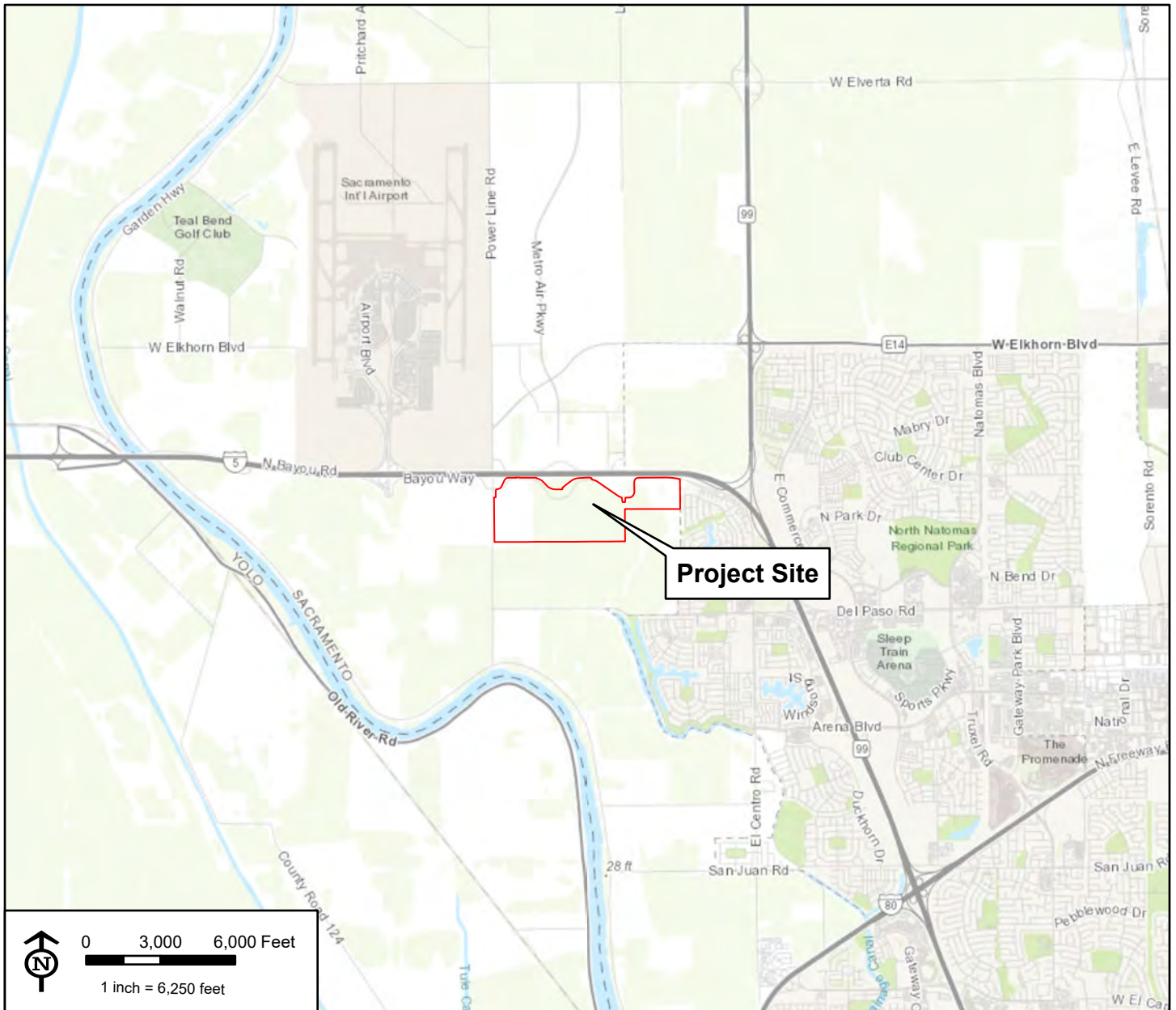
Photo 6. Representative photo of Hardstem and California Bulrush Marsh vegetation community present in Ditch-1 within the Project site, with a patch of Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub visible in the background; looking south.



Photo 7. Representative photo of Cattail Marsh vegetation community present in Ditch-1 within the Project site, with a patch of Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub visible in the background photo-right, and Poison Hemlock or Fennel Patches present on both banks; looking northwest.



Appendix D. NRCS Soil Resource Report



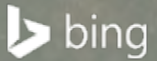
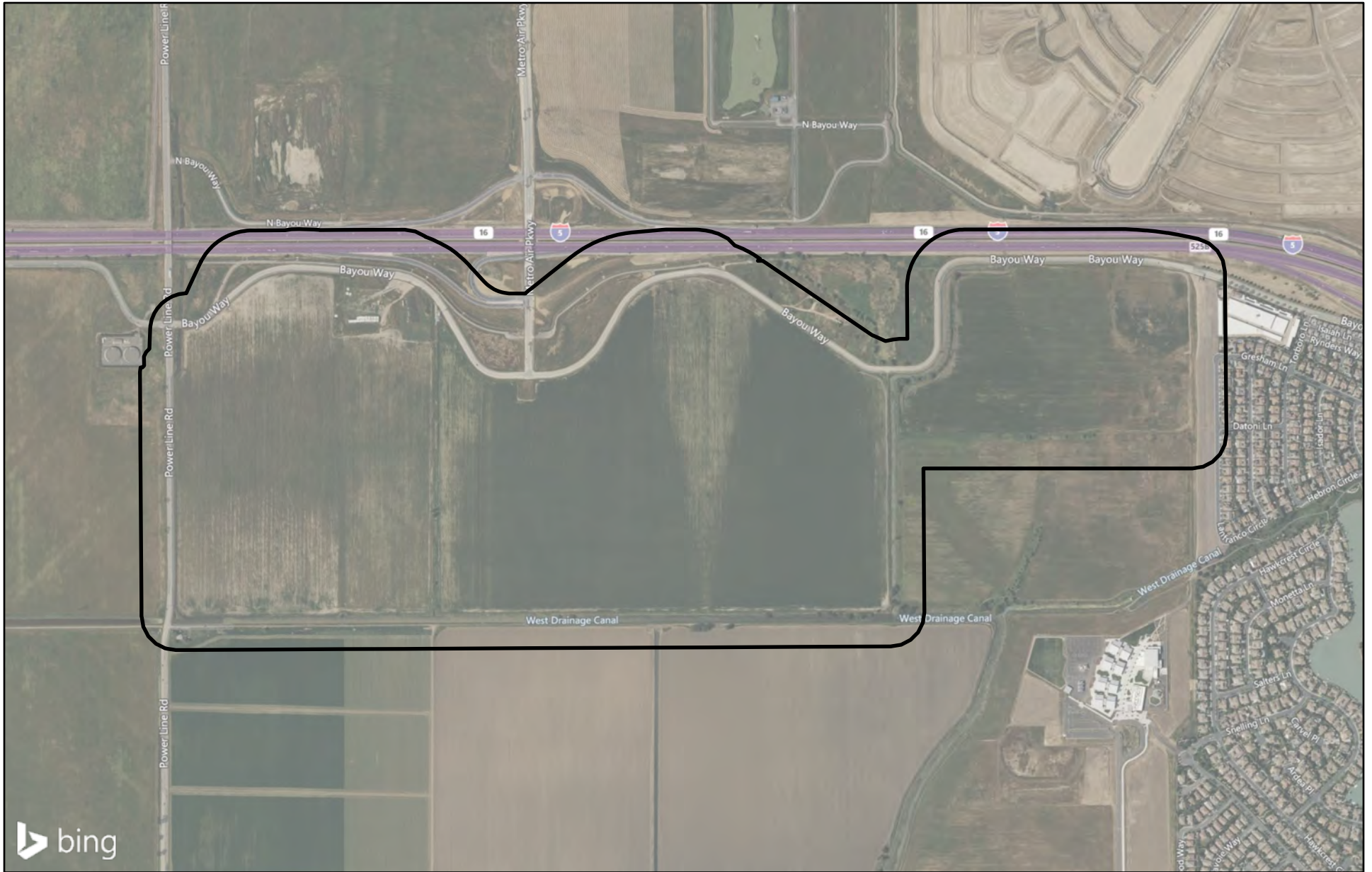
Source: ESRI ArcGIS Online Basemap - World Topographic Map, World Street Map



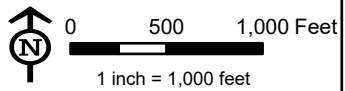
Public Land Survey System (PLSS):
 Mount Diablo Meridian, Township 9N, Range 4E, Section 05
 USGS Quad(s): Taylor Monument (1978)
 Watershed: Curry Creek-Sacramento River (1802016104)
 Project Site Coordinates: -121.567°W 38.67°N

**Exhibit 1
 Project Site and Vicinity**

Airport South Industrial Park



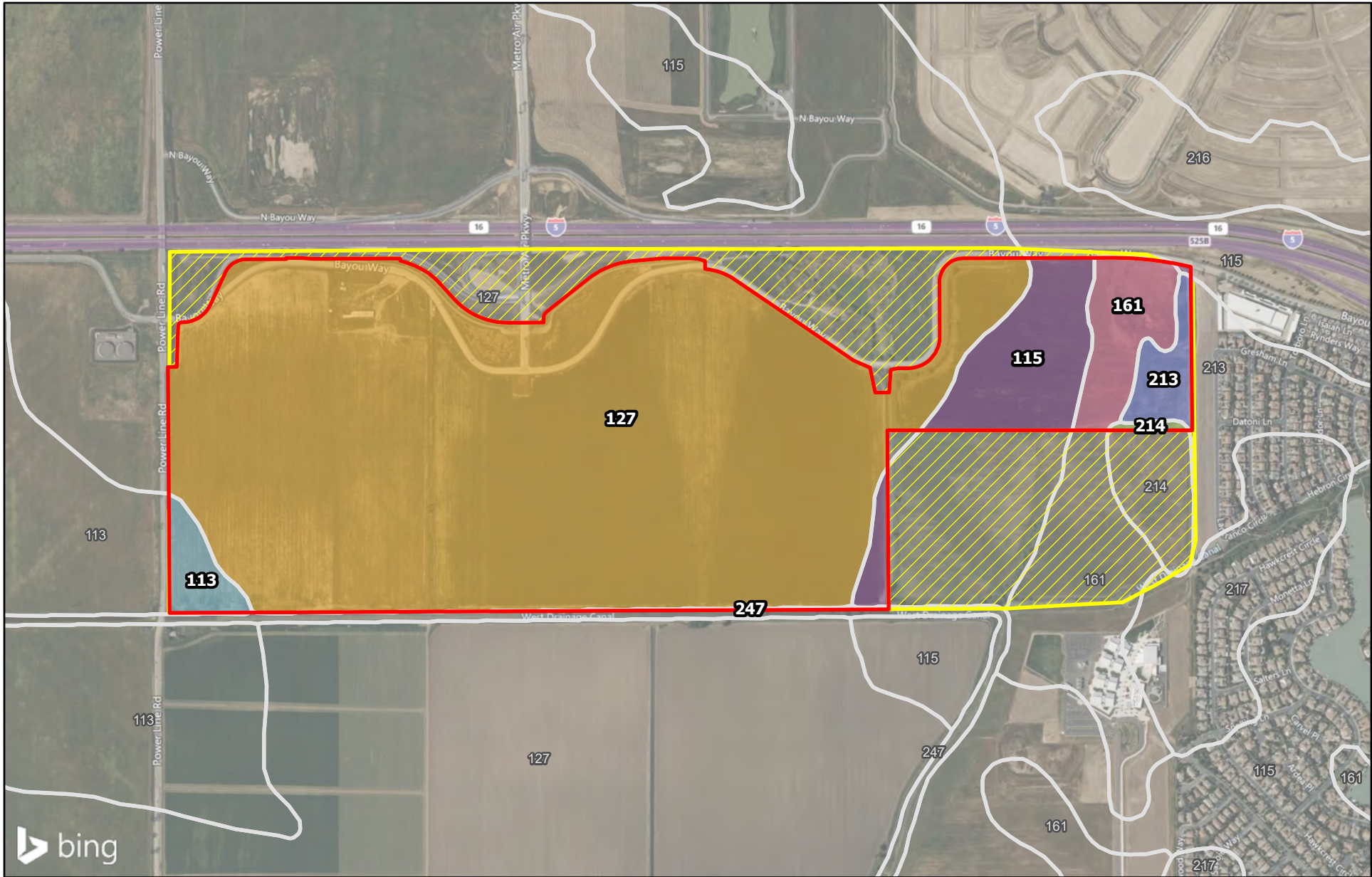
Source: Bing Maps Hybrid





- Project Site
- Biological Study Area











Study Areas

Airport South Industrial Park



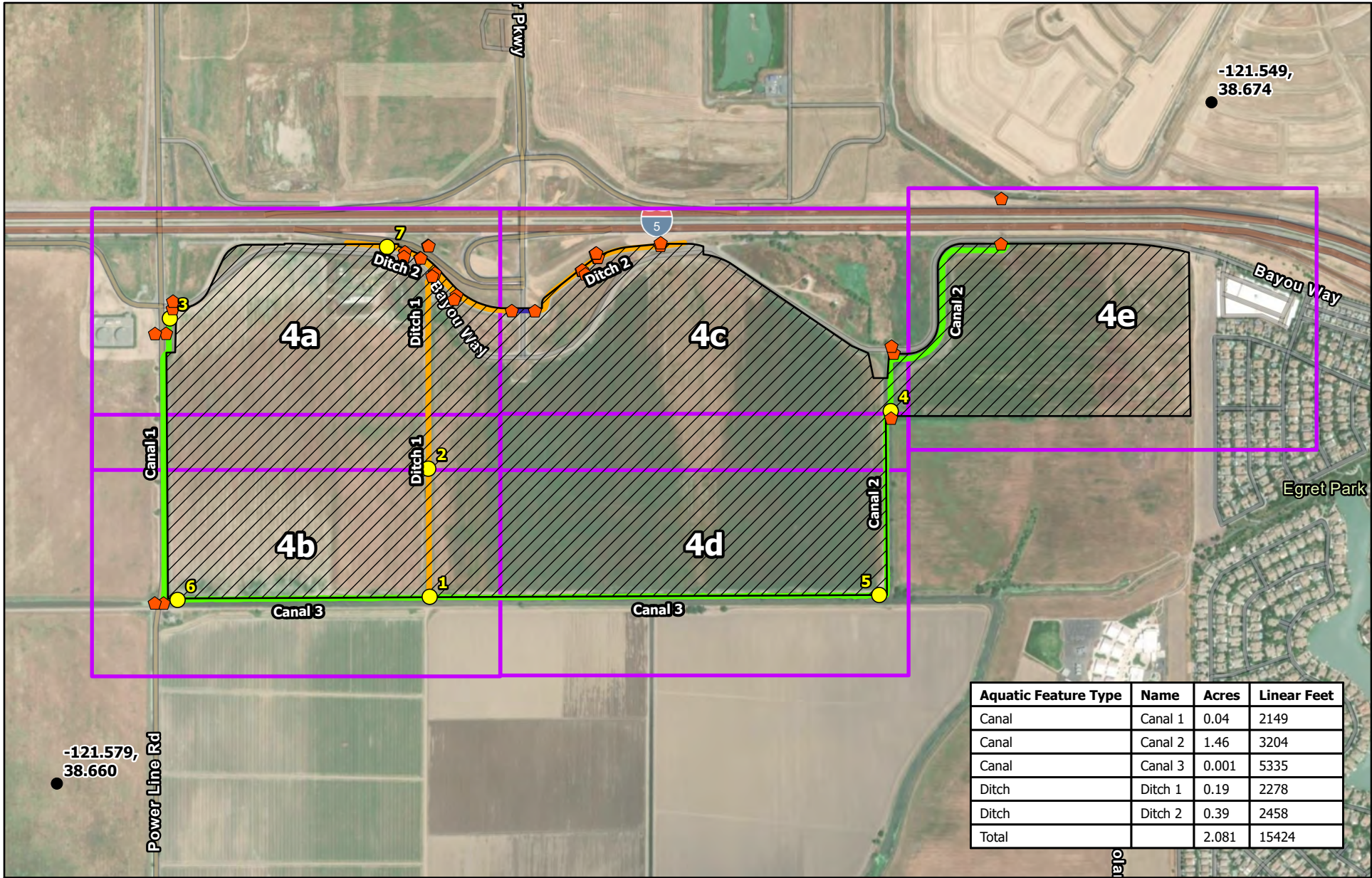
Source: Bing Maps Hybrid, NCRS Soils Data (10/2021)


 0 500 1,000 Feet
 1 inch = 1,000 feet


<p>Project Site</p> <ul style="list-style-type: none">  Project Site  Annexation Area  Surrounding SSURGO Soils <p>SSURGO Soils</p> <ul style="list-style-type: none">  113 - Capay clay loam, 0 to 2 percent slopes, occasionally flooded  115 - Clear Lake clay, hardpan substratum, drained, 0 to 1 percent slopes  127 - Cosumnes silt loam, partially drained, 0 to 2 percent slopes  161 - Jacktone clay, drained, 0 to 2 percent slopes  213 - San Joaquin silt loam, leveled, 0 to 1 percent slopes  214 - San Joaquin silt loam, 0 to 3 percent slopes  247 - Water
--

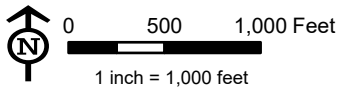
**Exhibit 3
Soils Map**

Airport South Industrial Park



Aquatic Feature Type	Name	Acres	Linear Feet
Canal	Canal 1	0.04	2149
Canal	Canal 2	1.46	3204
Canal	Canal 3	0.001	5335
Ditch	Ditch 1	0.19	2278
Ditch	Ditch 2	0.39	2458
Total		2.081	15424

Source: Bing Maps Hybrid



Surveyor Name: Krystal Pulsipher
 Map Date: 4/25/2022
 Map Author: David Duncan
 Date Revised: 7/18/2022
 Aerial Source: Bing Maps Hybrid
 Coordinate System:
 NAD 1983 UTM Zone 11N

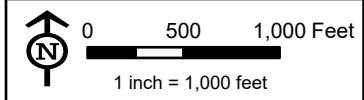
- Project Site
 - Map Page
 - Box Culvert
 - Map Reference Point
 - Sample Point
 - Culvert Point
- Aquatic Features**
- Canals 1, 2, and 3
 - Ditch 1 and 2

Exhibit 4 Aquatic Resource Delineation

Airport South Industrial Park



Source: Bing Maps Hybrid, National Wetlands Inventory

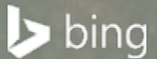
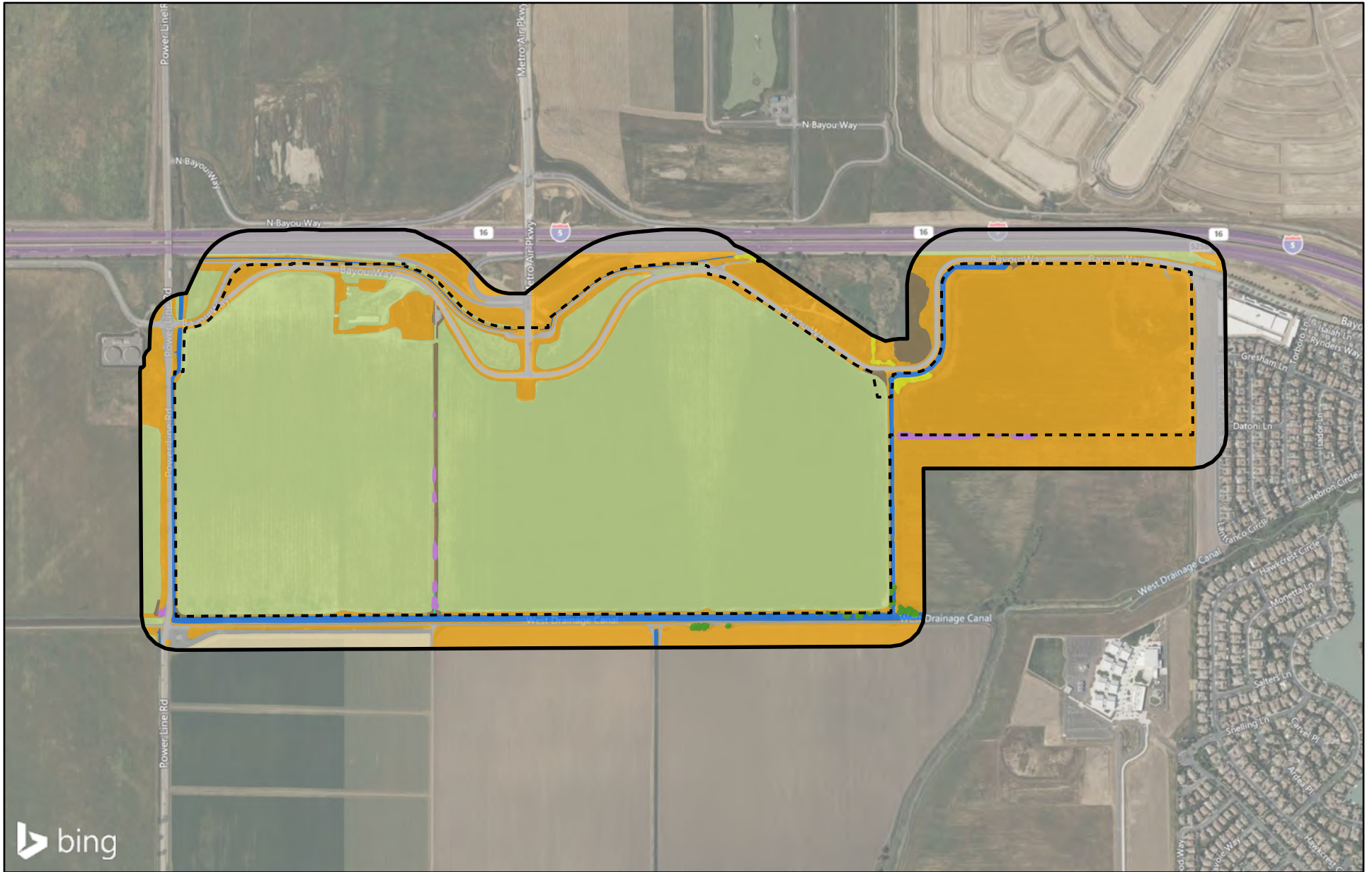


- Annexation Area
- Wetlands

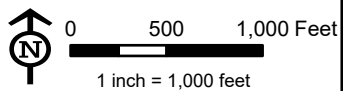


**Exhibit 5
National Wetlands Inventory
Within Annexation Area**

Airport South Industrial Park



Source: Bing Maps Hybrid



BSA (464.50-acres)

Study Area

Vegetation and Land Cover Types

- Cattail Marsh (0.02-acre)
- Disturbed/Developed (41.80-acres)
- Goodding's Willow - Red Willow Riparian Woodland and Forest (0.77-acre)
- Hardstem and California Bulrush Marshes (0.22-acre)

Himalayan Blackberry - Rattlebox - Edible Fig Riparian Scrub (1.28-acres)

Open Water (11.13-acres)

Perennial Rye Grass Fields (269.93-acres)

Poison Hemlock or Fennel Patches (3.91-acres)

Unknown Row Crops (4.58-acres)

Upland Mustards or Star-thistle Fields (130.10-acres)

Valley Oak Riparian Forest and Woodland (0.75-acre)

Exhibit 6 Vegetation and Land Cover

Airport South Industrial Park

APPENDIX F

DRAFT Aquatic Resources Delineation
Airport South Industrial Park
Sacramento County, California



Prepared For:

Raney Planning & Management, Inc.
ATTN: Rod Stinson
1501 Sports Drive, Suite A
Sacramento, CA 95834

Report Date:

September 2022



Sacramento 🌿 Orange 🌿 Pasadena 🌿 Riverside 🌿 Temecula 🌿 San Diego
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Recommended Citation: Bargas Environmental Consulting. 2022. DRAFT Aquatic Resources Delineation – Airport South Industrial Park, unincorporated Sacramento County, California. Report prepared for Raney Planning & Management, Inc. September 2022.

DRAFT



Table of Contents

1	Introduction	1
1.1	Project Site Location.....	1
1.2	Definitions	1
1.3	Project Applicant and Agent.....	1
2	Regulatory Setting	4
2.1	Wetlands.....	4
2.1.1	Hydrophytic Vegetation.....	4
2.1.2	Hydric Soils.....	5
2.1.3	Wetland Hydrology.....	5
2.2	Non-Wetland Waters.....	6
2.3	Non-Aquatic Hydrologic Features	6
3	Methodology.....	7
3.1	Delineation Survey and Field Conditions.....	7
3.2	Mapping.....	8
3.3	Determination Methods.....	8
4	Environmental Setting	9
4.1	Soils.....	9
4.2	Vegetation Communities.....	10
4.2.1	Perennial Rye Grass Fields.....	10
4.2.2	Upland Mustards or Star-thistle Fields	10
4.2.3	Poison Hemlock or Fennel Patches.....	10
4.2.4	Hardstem and California Bulrush Marsh	10
4.2.5	Cattail Marsh.....	11
4.2.6	Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub	11
4.2.7	Goodding’s Willow – Red Willow Riparian Woodland and Forest	11
4.2.8	Valley Oak Riparian Forest Woodland	11
4.3	Hydrology	11
5	Delineation Results.....	14
5.1	Tributary Drainages	14
5.1.1	Canal-1	14



5.1.2	Canal-2	15
5.1.3	Canal-3 (West Drainage Canal)	15
5.2	Other Waters	15
5.2.1	Ditch-1	15
5.2.2	Ditch-2	16
5.3	Annexation Area	16
5.3.1	PEM1A	16
5.3.2	PEM1C.....	17
5.3.3	PSSC	18
6	Conclusion.....	21
7	References	22

List of Tables

Table 1.	Indicator Status' for Hydrophytic Vegetation.....	5
Table 2.	Soil Series within the Project site	9
Table 3.	Aquatic Features Observed in the Project site	14

List of Exhibits

Exhibit 1.	Project Site and Vicinity.....	2
Exhibit 2.	Study Areas.....	3
Exhibit 3.	Soils Map	13
Exhibit 4.	Aquatic Resource Delineation Map.....	19
Exhibit 5.	National Wetlands Inventory Within Annexation Area.....	20

Appendices

- A. Representative Site Photographs
- B. Observed Plant Species
- C. Arid West Wetland / OHWM Data Forms
- D. Custom Soil Resource Report
- E. GIS Shapefiles and ORM Upload Spreadsheet (electronic only attachment)



1 Introduction

This report presents the results of the aquatic resources delineation (ARD) conducted by Bargas Environmental Consulting, LLC (Bargas) for the Airport South Industrial Park project (Project) located within unincorporated Sacramento County, California. The purpose of the delineation was to identify whether aquatic resources occur within the Project site and to provide the U.S. Army Corps of Engineers (USACE) with sufficient information to determine if these aquatic resources are jurisdictional wetlands or other waters of the United States (U.S.), as defined by the USACE under Section 404 of the Clean Water Act (CWA). Permission to enter the Project site to complete field verification by USACE must be verified in writing by the Applicant and Applicant’s Agent prior to access.

1.1 Project Site Location

The Project site is 340 acres in size and located in unincorporated Sacramento County, south of the Sacramento International Airport and west of the community of North Natomas and approximately 6.9 miles northwest of downtown Sacramento, California (**Exhibits 1 and 2**). The Project site is equivalent to the Project boundary and is roughly bordered by Powerline Road on the west, the Caltrans Interstate-5 (I-5) right-of-way on the north, a fire break along Lanfranco Circle on the east, and the West Drainage Canal on the south. The Project site is comprised of several APNs including 225-0020-022, 225-0020-024, 225-0020-034, 225-0020-035, 225-0020-030, 225-0020-026, 225-0020-027, 225-0020-021, 225-0020-016, 225-0020-017, 225-0020-010, and 225-0030-023. The approximate center point is located at 38.667115°, -121.565371° (WGS84), within Section 5 of Township 9 North in Range 6 East of the US Geological Survey (USGS) Taylor Mountain 7.5-minute quadrangle

From downtown Sacramento, the Project site may be accessed via I-5 north for approximately 7 miles. Take exit 527 then turn left (south) onto Metro Air Parkway. Follow Metro Air Parkway for approximately 0.3 mile to Bayou Way and the north side of the Project site.

1.2 Definitions

This report will use the following definitions for areas referred to herein:

- **Project site:** The Project site is defined as the 340 acres being analyzed for Project entitlements. The Project site is the primary Study Area for the formal Aquatic Resources Delineation.
- **Annexation Area:** The Annexation Area is defined as the 450 acres proposed for annexation by the City of Sacramento and is inclusive of the Project Area. As used herein, however, references to resources in the Annexation Area are exclusive of the Project site.

A map depicting these areas is provided as **Exhibit 2**.

1.3 Project Applicant and Agent

Applicant	Agent
Raney Planning & Management, Inc. ATTN: Rod Stinson 1501 Sports Drive, Suite A Sacramento, CA 95834	Bargas Environmental Consulting, LLC ATTN: Krystal Pulsipher 3604 Fair Oaks Boulevard Suite 180 Sacramento, CA 95864



Exhibit 1. Project Site and Vicinity

DRAFT



Exhibit 2. Study Areas

DRAFT



2 Regulatory Setting

The regulatory setting is framed by current enabling legislation and case law. Under Section 404 of the CWA, the USACE regulates the discharge of dredged and fill materials into “waters of the U.S.”

The Environmental Protection Agency (USEPA) published a revised definition of "waters of the United States" on December 7, 2021, in response to the U.S. District Court of the District of Arizona ruling resulting in "vacating and remanding" the Navigable Waters Protection Rule (Federal Register 2021). This revised definition is consistent with the pre-2015 regulations based upon the Supreme Court cases of *Rapanos vs. United States* and *Carabell vs. United States* (USEPA and USACE 2008), over traditional navigable waters (TNW) and the following types of features determined to have "significant nexus" to a TNW:

1. wetlands adjacent to TNWs
2. non-navigable tributaries of TNWs that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally
3. wetlands that directly abut non-navigable tributaries of TNWs

Projects that place fill in jurisdictional wetlands and non-wetland waters of the U.S. require a permit from the USACE under Section 404 of the CWA. The USACE issues nationwide permits for specific types of activities with minimal individual or cumulative adverse environmental impacts. Individual permits are required for large and/or complex projects or projects that exceed the impact threshold for nationwide permits.

These waters may be sorted into two broader categories of waters: wetlands and non-wetland waters.

2.1 Wetlands

Wetlands are defined under 33 C.F.R. 328.3(c)(16) as:

Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

In order for an area to be considered a wetland under Section 404, it must possess three wetland characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology. Several indicators may be analyzed to determine if the criteria are satisfied.

2.1.1 Hydrophytic Vegetation

Hydrophytic vegetation is typically adapted to live in permanently or periodically saturated soils. Hydrophytic indicator species are those included on the *National Wetland Plant List, version 3.5: Arid West Region* (USACE 2020). Each species on the list is rated according to a wetland indicatory category, as shown in **Table 1** below.



Table 1. Indicator Status' for Hydrophytic Vegetation

Category	Indicator Status	Probability
Obligate Wetland	OBL	Almost always occur in wetlands (estimated probability > 99 percent)
Facultative Wetland	FACW	Usually occur in wetlands (estimated probability 67–99 percent)
Facultative	FAC	Equally likely to occur in wetlands and non-wetlands (estimated probability 34–66 percent)
Facultative Upland	FACU	Usually occur in non-wetlands (estimated probability 67–99 percent)
Obligate Upland	OBL	Almost always occur in non-wetlands (estimated probability > 99 percent)
No Investigation	NI	Undetermined

*Source: USACE 2020.

To be considered hydrophytic, more than 50% of the dominant species of each stratum must have wetland indicator status (i.e., be rated as obligate [OBL], facultative wetland [FACW], or facultative [FAC]).

2.1.2 Hydric Soils

Hydric soils are defined as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Soils are considered likely to meet the definition of a hydric soil when one or more of the following criteria are met:

1. All Histels except Folistels and Histosols except Folists; or
2. Soils that are frequently ponded for long duration or very long duration during the growing season; or
3. Soils that are frequently flooded for long duration or very long duration during the growing season.

Hydric soils develop under conditions of saturation and inundation combined with microbial activity in the soil that causes a depletion of oxygen. The *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West (Version 2.0)* (USACE 2008a) has a number of field indicators that may be used to identify hydric soils. The Natural Resources Conservation Service (NRCS) has also developed field indicators that may demonstrate the presence of hydric soils (NRCS 2018). These indicators include hydrogen sulfide generation; accumulation of organic matter; and reduction, translocation, and/or accumulation of iron and other reducible elements. These processes result in soil characteristics that persist during both wet and dry periods. Separate indicators have been developed for sandy soils and for loamy and clayey soils.

2.1.3 Wetland Hydrology

Areas with wetland hydrology are those where the presence of water has an overriding influence on vegetation and soil characteristics due to anaerobic and reducing conditions, respectively (USACE 1987). Hydrology is often the most difficult criterion to measure in the field due to seasonal and annual variations in water availability. Some of the indicators that are commonly used to identify wetland hydrology include visual observation of inundation



or saturation, watermarks, recent sediment deposits, surface scour, and oxidized root channels (rhizospheres) resulting from prolonged anaerobic conditions.

2.2 Non-Wetland Waters

Tributary non-tidal waters that may be regulated by the USACE extend to the Ordinary High Water Mark (OHWM), which is defined under 33 CFR 328.3(c)(7) as:

That line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impresses on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

2.3 Non-Aquatic Hydrologic Features

The *Corps of Engineers Wetlands Delineation Manual* (USACE 1987) defines non-aquatic features as:

Upland and lowland areas that are neither deep water aquatic habitats, wetlands nor other special aquatic sites. They are seldom or never inundated, or if frequently inundated, they have saturated soils for only a brief period of time during the growing season. If these features are vegetated, they normally support species that are predominantly adapted to aerobic soil conditions.

Determined on a case-by-case basis, USACE and EPA guidance on the extent of CWA geographic jurisdiction define certain categories of “upland ditches” and “upland swales” that generally are not subject to CWA jurisdiction. An irrigation ditch is a man-made feature and/or upland swale that either conveys water to an ultimate irrigation use or place of use, or that moves and/or conveys irrigation water (i.e. “run-off from irrigation) away from irrigated lands (USACE 2007).

As described in *Defining “Waters of the United States”: Canals, Ditches, and Drains* (University of Arkansas School of Law 2004), irrigation ditches and canals are generally not subject to federal CWA jurisdiction when these waters do not establish a “significant nexus” with traditional navigable waters. Irrigation ditches that receive water from natural streams and lakes, and divert water to streams and creeks, are considered tributaries to other “waters of the United States.”



3 Methodology

This report has been prepared per the USACE South Pacific Division and Sacramento District Regulatory Programs minimum standards (USACE 2016a, 2016b). In addition, the following manuals and guidance were used to delineate waters of the U.S. and wetlands that are potentially subject to USACE jurisdiction under Section 404 of the CWA:

- *Corps of Engineers Wetlands Delineation Manual* (USACE 1987);
- *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West (Version 2.0)* (USACE 2008a);
- *A Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States, A Delineation Manual* (USACE 2008b)

Prior to conducting the field aquatic resources delineation, the following information sources were reviewed:

- Aerial imagery of the Project site and the vicinity (Google 2022);
- Natural Resources Conservation Service (NRCS) soil survey maps and unit descriptions, Web Soil Survey, Sacramento County (NRCS 2022);
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) - Wetlands Online Mapper (USFWS 2022);
- U.S. Geological Survey's National Hydrography Dataset (NHD) (USGS 2022) to determine if hydrological features have been mapped on or adjacent to the Project site.

The Web Soil Survey, NWI, and NHD were used to analyze the Annexation Area, supplemented by field observations of the area.

3.1 Delineation Survey and Field Conditions

Bargas biologists Krystal Pulsipher and Bekah Christianson conducted the aquatic resources delineation on Wednesday, October 27 and Thursday, October 28, 2021. An additional site visit was conducted on July 5, 2022, by Krystal Pulsipher to collect additional data. The site assessment consisted of walking meandering transects throughout the Project site, but remaining south of Bayou Way, to identify wetlands or waterways potentially under the jurisdiction of the USACE. Where wetlands were suspected to be present based on aerial signatures and conditions observed in the field, soil pits were excavated to a depth of approximately 18 inches or until an impermeable layer was reached. The three wetland criteria (hydrophytic vegetation, hydric soils, and wetland hydrology) were evaluated following the USACE protocol for the Arid West (USACE 2008a). The locations of the sample points and aquatic features were noted on aerial images of the Project site. Mapped soil types in the Project site were determined using the NRCS Web Soil Survey, Custom Soil Resource Report (NRCS 2022). A standard Munsell® Soil Color Chart was used to determine soil matrix and mottle colors (Kollmorgen Instruments Company 2000) in the field. Where present, the OHWM for all potential non-wetland waters of the U.S. present were delineated (USACE 2008b). Plant community names follow *A Manual of California Vegetation: Second Edition* (CNPS 2022), where applicable. Plant nomenclature followed *Jepson eFlora* (2022). The *USACE National Wetland Plant List, version 3.5* (USACE 2020), was used to determine the status of observed plants as wetland indicator species. Site photographs are presented in **Appendix A**. A list of plant species observed, and their National Wetland Plant List indicator status is provided in **Appendix B**. Datasheets are presented in **Appendix C**.



3.2 Mapping

Boundaries of hydrologic features (including man-made features) within the Project site were surveyed and mapped using a Eos Arrow 100 receiver paired with the Eos Pro Tools and ESRI Field Maps applications. This GPS is capable of real-time differential correction and sub-meter accuracy. The GPS data were downloaded through ArcGIS Online and converted into ESRI shapefile format. The geographic coordinate system used to reference the data was Universal Transverse Mercator (UTM–Zone 10), North American Datum (NAD83) in meters.

Each wetland was assessed by determining the wetland feature/upland edges and by observing the mandatory wetland indicators at selected points along each transect as defined by the 1987 Manual (USACE 1987), the Regional Supplemental Manual (USACE 2008a), and Guide to OHWM (USACE 2008b). Potential wetland boundaries were mapped at a level of accuracy of less than one meter. Soil pits were hand-excavated to obtain soil data for wetlands. Data were overlaid on an aerial photograph provided by ESRI ArcGIS World Imagery. The top of bank was mapped for non-wetland waters (canals) and the bankfull width and location of OHWM in relation to top of bank noted. Desktop methods were then utilized to map the location of OHWM on both banks of each non-wetland feature and top of bank opposite the bank mapped with GPS in the field. The ESRI data and GIS software were used to calculate the acreage of each polygon. Mapping requirements, as set forth by *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program* (USACE 2016a) and the *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports* (USACE 2016b) for the Sacramento District were followed.

3.3 Determination Methods

Data for each potential wetland were collected using the *USACE Wetland Determination Data Form – Arid West Region* (USACE 2013). Data forms were completed at representative locations to determine whether suspect features qualify as jurisdictional wetlands or other waters of the U.S. (**Appendix C**). Wetlands were determined based on the presence of the three factors that define wetlands – the presence of dominant hydrophytic vegetation, the presence of hydric soils, and wetland hydrology indicators.

Data for each potential non-wetland water were collected using the *USACE Arid West Ephemeral and Intermittent Streams OHWM Datasheet* (USACE 2008b, 2010). Data for each linear feature were collected at representative cross sections with observations on sediment texture and vegetation characteristics summarized for each floodplain unit present. The OHWM for each linear feature were determined based upon the presence of certain indicators which can include a change in average sediment texture, vegetation species, vegetation cover, and breaks in bank slope.



4 Environmental Setting

The Project site is located within the Sacramento Valley between the North Coast Ranges on the west and the Northern Sierra Nevada Mountains on the east. This region is characterized by a Mediterranean climate, generally experiencing warm, dry conditions April through October and wet, cool conditions from November through March. The topography within the Project site has an elevation range of approximately 13 to 20 feet above mean sea level and is open and relatively flat throughout.

The Project site is currently characterized primarily by fallow agricultural fields with a construction yard present along the northern side adjacent to Bayou Way and west of Metro Air Parkway. Very few dirt access roads exist within the Project site. There is an overhead electrical utility pole alignment along the southern boundary adjacent to the West Drainage Canal. Two large canals partially overlap the west and south boundaries and a third transects the eastern third of the Project site. These canals are part of the facilities managed and operated by Reclamation District 1000 (RD1000 2022). An irrigation drainage ditch transects the western third of the Project site and a second transects the northern extent of the Project site.

4.1 Soils

Mapped soil series in the Project site were determined using the Soil Survey Geographic Database (SSURGO) and NRCS Web Soil Survey, Custom Soil Resource Report (NRCS 2021). **Table 2** identifies the soil type by series and subgroup, map symbol, and hydric characteristics (**Exhibit 3**). The NRCS soil report for the Project site is included in **Appendix D**.

Table 2. Soil Series within the Project site

Soil Series	Map Unit Number	Map Unit Symbol	Parent Material	Drainage Class	Hydric Rating
Capay clay loam, 0 – 2% slopes, occasionally flooded	113	hhlm	Alluvium	Moderately well drained	No
Clear Lake clay, hardpan substratum, drained, 0-1% slopes	115	hhlp	Alluvium	Somewhat poorly drained	Yes
Cosumnes silt loam, partially drained, 0-2% slopes	127	2x415	Alluvium derived from igneous and metamorphic rock	Somewhat poorly drained	Yes
Jacktone clay, drained, 0-2% slopes	161	hhn5	Alluvium	Somewhat poorly drained	Yes
San Joaquin silt loam, leveled, 0-1% slopes	213	hhpv	Alluvium derived from granite	Moderately well drained	No
San Joaquin silt loam, 0-3% slopes	214	hhpw	Alluvium derived from granite	Moderately well drained	No

Source: NRCS 2022

As shown in Exhibit 3, these same soil types continue outside of the Project site into the adjacent portions of the Annexation Area.



4.2 Vegetation Communities

The Project site is primarily characterized by semi-natural vegetation community alliances dominated by non-native plant species. A list of plant species observed, and their National Wetland Plant List indicator status is provided in **Appendix B**.

4.2.1 Perennial Rye Grass Fields

The majority of the Project site can be best described as Perennial Rye Grass Fields (*Lolium perenne* [now *Festuca perennis*] Herbaceous Semi-Natural Alliance). This vegetation community was observed within two large fallowed agricultural fields, lower topographical roadside areas that receive sheet flow storm water runoff from the roads including the areas west and east of Metro Air Parkway north of Bayou Way, and a ditch that transects the northern end of the Project site. The dominant plant species observed in these areas was Rye Grass (*Festuca perennis*; FAC) with smaller amounts of Perennial Pepperweed (*Lepidium latifolium*; FAC), Ripgut Grass (*Bromus diandrus*; not listed [NL] assumed UPL), and Little-seeded Canary Grass (*Phalaris minor*; NL) observed. Historic aerial imagery and field observations suggest the vegetation in most areas containing Perennial Rye Grass Fields community may be managed through mowing or shallow tilling for fire fuel abatement.

4.2.2 Upland Mustards or Star-thistle Fields

The second most prevalent vegetation community observed within the Project site can best be described as Upland Mustards or Star-thistle Fields (*Brassica nigra* – *Centaurea* [*solstitialis*, *melitensis*] Herbaceous Semi-Natural Alliance). This vegetation community was observed within one large fallowed agricultural field and most roadside areas within the Project site. The dominant plants species observed in these areas included Black Mustard (*Brassica nigra*; NL), Jointed Charlock (*Raphanus raphinistrum*; NL), Little Mallow (*Malva parviflora*; NL), Bristly Ox-Tongue (*Helminthotheca echioides*; FAC), and Ripgut Grass (NL). Historic aerial imagery and field observations suggest the vegetation in most areas containing Upland Mustards or Star-thistle Fields community may be managed through mowing or shallow tilling for fire fuel abatement.

4.2.3 Poison Hemlock or Fennel Patches

The Project site also contains locations best described as Poison Hemlock or Fennel Patches (*Conium maculatum* – *Foeniculum vulgare* Herbaceous Semi-Natural Alliance). The dominant plant species observed in these areas include Poison Hemlock (*Conium maculatum*; FACW), Fennel (*Foeniculum vulgare*; NL), Milk Thistle (*Silybum marianum*; NL), Wild Teasel (*Dipsacus fullonum*; FAC), Little Mallow, and Ripgut Grass (NL). Other species observed in smaller amounts included Bristly Ox-Tongue (FAC), Italian Thistle (*Carduus pycnocephalus* ssp. *pycnocephalus*; NL), Chicory (*Cichorium intybus*; FACU), Black Mustard (NL), and Perennial Pepperweed (FAC). Poison Hemlock or Fennel Patches appear limited to places where fire fuel abatement equipment may not have as much access to operate, including the corners of fields and along the edge of one field immediately adjacent to an irrigation drainage ditch.

4.2.4 Hardstem and California Bulrush Marsh

The vegetation within the drainage ditch that transects the western third of the Project site can be best described primarily as Hardstem and California Bulrush Marsh (*Schoenoplectus* [*acutus*, *californicus*] Herbaceous Alliance). The dominant plant species observed in these areas included Common Tule (*Schoenoplectus acutus* var. *occidentalis*; OBL), Tall Flatsedge (*Cyperus eragrostis*; FACW), Curly Dock (*Rumex crispus*; FAC), Johnson Grass



(*Sorghum halepense*; FACU) and Bristly Ox-Tongue (FAC). A few Fremont Cottonwood (*Populus fremonti*; NL) trees, ranging from approximately 15 to 30 feet in height, are present and rooted within or adjacent to the irrigation drainage ditch where this community is present.

4.2.5 Cattail Marsh

The southern end of this drainage ditch widens just north of where it discharges to the West Drainage Canal and contains two patches of vegetation best described as Cattail Marshes (*Typha [angustifolia, domingensis, latifolia]* Herbaceous alliance. These areas are dominated by Cattail species (*Typha* sp.; OBL) with smaller amounts of Common Tule (OBL).

4.2.6 Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub

There are patches of vegetation along the irrigation drainage ditch transecting the western third of the Project site and along a smaller ditch present just outside of the southeastern Project site boundary that are best characterized as Himalayan Blackberry – Rattlebox – Edible Fig Riparian Scrub (*Rubus armeniacus - Sesbania punicea – Ficus carica* Shrubland Semi-Natural Alliance. These patches are predominantly composed of Himalayan Blackberry (*Rubus armeniacus*; FAC) with smaller amounts of Western Poison Oak (*Toxicodendron diversilobum*; FACU), Edible Fig (*Ficus carica*; FACU), Wild Teasel (FAC), Poison Hemlock (FACW), and Fennel (NL).

4.2.7 Goodding’s Willow – Red Willow Riparian Woodland and Forest

A small grove of trees best characterized as Goodding’s Willow – Red Willow Riparian Woodland and Forest (*Salix gooddingii – Salix laevigata* Forest and Woodland Alliance) is present adjacent to the south bank of the eastern canal where it turns east to follow parallel to Bayou Way. The trees are all of a single species, Goodding’s Willow (*Salix gooddingii*; FACW), and range in height from approximately 15 to 25 feet tall.

4.2.8 Valley Oak Riparian Forest Woodland

Several small groves of trees best characterized as Valley Oak Riparian Forest Woodland (*Quercus lobata* Riparian Forest and Woodland Alliance) are present within and adjacent to the west bank of the eastern canal just north of the West Drainage Canal on the south boundary of the Project site. Several small groves of trees are also present along the north bank of the West Drainage Canal to the west of the eastern canal. The trees are all of a single species, Valley Oak (*Quercus lobata*; FACU), and range in height from approximately 15 to 40 feet tall. Many of the trees are rooted within the bank and are failing as the bank erodes into the canal.

4.3 Hydrology

The hydrologic regime in the Project site is influenced by seasonal precipitation, stormwater runoff from the lands adjacent to the Project site, and overflow from the irrigation drainage ditch and canals present within or partially overlapping the Project site during abnormally large storm events. One such large storm event occurred between October 23 to 25, 2021, two days prior to the day one of this survey, and output approximately 4.5 inches of precipitation (Weather Underground 2022). This amount of rainfall is significantly greater than the 30-year normal precipitation for the month of October which is 0.8 to 1.2 inches (PRISM Climate Group 2022).

The two north-south oriented canals (one along Powerline Road, the other bisecting the eastern third of the Project site) are direct tributaries to the canal along the southern boundary, West Drainage Canal. All three canals and the drainage ditch transecting the northern edge of the Project site are features mapped in the NWI and NHD



in addition to being blue line features on the USGS topographic map. The irrigation drainage ditch feature observed bisecting the western third of the Project site is not mapped in the databases listed above or on the topographic map but discharges to the West Drainage Canal. The West Drainage Canal is tributary to the Sacramento River via multiple pumping stations managed by Reclamation District 1000 (RD1000 2022).

The Project site is situated within of the Natomas Main Drainage Canal-Sacramento River subwatershed (12-digit hydrologic unit code [HUC] 180201610402; USGS 2022) within the Upper Coon-Upper Auburn watershed (8-digit HUC 18020161). The Natomas Main Drainage Canal-Sacramento River subwatershed encompasses an area to the east of the Sacramento River and north of the American River, west of the Natomas Main Drainage Canal (Steelhead Creek) and south of the Cross Canal located just west of the community of Pleasant Grove.

DRAFT



Exhibit 3. Soils Map

DRAFT



5 Delineation Results

Survey efforts identified a total of 2.081 acres (15,424 linear feet) of aquatic features composed of three tributary drainages (Canal-1, Canal-2, Canal-3) and two other waters (Ditch-1, Ditch-2) (Table 3 and Exhibit 4). Delineation data sheets are included in Appendix C, and representative photographs are included in Appendix A.

Table 3. Aquatic Features Observed in the Project site

Feature Name	Area (acres)*	Length (linear feet)
Tributary Drainages		
Canal-1	0.04	2,149
Canal-2	1.46	3,204
Canal-3	0.001	5,335
Subtotal:	1.501	10,688
Other Waters		
Ditch-1	0.19	2,278
Ditch-2	0.39	2,458
Subtotal:	0.58	4,736
Grand Total:	2.081	15,424

Source: Bargas, 2022. *Acreages are calculated estimations that are subject to modification pending formal verification by USACE.

5.1 Tributary Drainages

5.1.1 Canal-1

Canal-1 is a north-south oriented man-excavated drainage canal that partially overlaps the Project site’s western boundary. This canal’s origin can be traced on the topographic map and the RD1000 facilities map as beginning within the Sacramento International Airport grounds approximately 2 to 3 miles northwest of the Project site. Canal-1 is a direct tributary to Canal-3 (West Drainage Canal) as it directly connects at the southwest corner of the Project site. This feature conveys stormwater and irrigation runoff collected in various small ditches and stormwater infrastructure in the local vicinity. Canal-1 exhibited an OHWM that was not prominent, with one indicator observed being a change in bank slope, particularly on the east bank where a slight shelf was observed, creating an upside-down trapezoidal-like cross-sectional profile. The OHWM of the entire feature appeared to vary between approximately 25 to 30 feet wide, with 30-foot width observed at OHWM SP-3. The depth at OHWM and the sediment characteristics were unable to be determined due to safety concerns. The second OHWM indicator observed was a shift from open water and floating aquatic vegetation such as Duckweed (*Lemna* species; OBL) and an unidentified dead floating-leaved rooted vascular plant species to Black Mustard (NL), Milk Thistle (NL), Ripgut Grass (NL), Rye Grass (FAC), Poison Hemlock (FACW), and Fennel (NL) in Upland Mustards or Star-thistle Fields, Perennial Rye Grass Fields, or Poison Hemlock or Fennel Patches communities. Evidence of a recent flooding event was observed in the form of ponded water and aquatic vegetation present in the field adjacent to the east bank of the canal.



5.1.2 Canal-2

Canal-2 north-south oriented man-excavated drainage canal that transects the eastern third of the Project site. This canal's origin can be traced on the topographic map and the RD1000 facilities map as beginning along Lone Tree Road just north of West Elkhorn Boulevard, approximately 2 to 3 miles north of the Project site. Canal-2 is a direct tributary to Canal-3 (West Drainage Canal) as it directly connects at the south boundary of the Project site. This feature conveys stormwater and irrigation runoff collected in various small ditches and stormwater infrastructure in the local vicinity. Canal-2 exhibited an OHWM that was not prominent, with one indicator observed being a change in bank slope creating an upside-down trapezoidal-like cross-sectional profile. The OHWM of the entire feature appeared to vary between approximately 26 to 30 feet wide, with 28-foot width observed at OHWM SP-4. Both banks of this feature are experiencing erosion. The depth at OHWM and the sediment characteristics were unable to be determined due to safety concerns. The second OHWM indicator observed was a shift from open water and floating aquatic vegetation such as Duckweed (OBL) and an unidentified dead floating-leaved rooted vascular plant species to Black Mustard (NL), Milk Thistle (NL), Ripgut Grass (NL), Rye Grass (FAC), Poison Hemlock (FACW), and Fennel (NL) in Upland Mustards or Star-thistle Fields or Poison Hemlock or Fennel Patches communities. There are trees present along the banks of this feature, either individual specimens or small groves of either Goodding's Black Willow (FACW) or Valley Oak (FACU).

5.1.3 Canal-3 (West Drainage Canal)

Canal-3 is a named feature, the West Drainage Canal, and is a west-east oriented man-excavated drainage canal that partially overlaps the south boundary of the Project site. This canal's origin can be traced on the topographic map and the RD1000 facilities map as beginning along Elkhorn Boulevard east of Garden Highway, approximately 3 miles northwest of the Project site. The canal receives water from several other smaller drainage canals that convey stormwater and irrigation runoff collected in various small ditches and stormwater infrastructure in the local vicinity. This water ultimately gets discharged to the Sacramento River in a controlled and managed way via several different pump stations. Canal-3 exhibited an OHWM that was moderately prominent with one indicator observed being a change in bank slope, especially on the south bank where there was an obvious scour mark below where the bank was being undercut, creating an upside-down trapezoidal-like cross-sectional profile. The OHWM of this feature appeared to vary between 49 to 54 feet wide, with a 52-foot width observed at OHWM SP-5 and a 50-foot width at OHWM SP-6. Both banks of this feature are experiencing erosion. The depth at OHWM and the sediment characteristics were unable to be determined due to safety concerns. The second OHWM indicator observed was a shift from open water and floating aquatic vegetation to Black Mustard (NL), Milk Thistle (NL), Ripgut Grass (NL), Rye Grass (FAC), Poison Hemlock (FACW), and Fennel (NL) in Upland Mustards or Star-thistle Fields or Poison Hemlock or Fennel Patches communities. There are trees present along the banks of this feature, either individual specimens or small groves of Valley Oak (FACU) and Black Walnut (*Juglans nigra*; UPL). Evidence of a recent flooding event was observed in the form of ponded water and aquatic vegetation present in the field adjacent to the north bank of the canal.

5.2 Other Waters

5.2.1 Ditch-1

Ditch-1 is a north-south oriented man-excavated irrigation drainage ditch that transects the western third of the Project site, starting at Bayou Way on its north terminus and discharging to Canal-3 (West Drainage Canal) on its



south terminus. This feature conveys excess irrigation water and stormwater runoff from the adjacent agricultural fields to Canal-3. Ditch-1 exhibited an OHWM that was not prominent, with one indicator observed being a change in bank slope creating an upside-down trapezoidal-like cross-sectional profile. The OHWM varied in width from being approximately 16 feet wide and 1 foot deep at its south end (OHWM SP-1) and approximately 3 feet wide and 1.5 feet deep near the north end (OHWM SP-2), with 3 feet wide being the average width observed. The substrate within the channel bed is best characterized as silt. The second OHWM indicator observed included a change in vegetation species. The majority of Ditch-1 is best characterized as Hardstem and California Bulrush Marsh with the dominant plant species being Common Tule (OBL), Tall Flatsedge (FACW), Curly Dock (FAC), Johnson Grass (FACU), and Bristly Ox-Tongue (FAC). Other plant species observed in smaller amounts include Cattail (OBL), Himalayan Blackberry (FAC), and Fremont Cottonwood (not listed [NL], assumed UPL). The vegetation shifted to Perennial Rye Grass Fields primarily on the west side of the feature with dominant vegetation being Rye Grass (FAC) and Ripgut Grass (NL), and Poison Hemlock or Fennel Patches primarily on the west side of the feature with dominant vegetation being Fennel (NL), Poison Hemlock (FACW), Milk Thistle (NL), Black Mustard (NL), and Ripgut Grass.

5.2.2 Ditch-2

Ditch-2 is an east-west oriented man-excavated drainage ditch that transects the northern edge of the Project site. The ditch starts outside of the Project site on the north side of Bayou Way across the road from Canal-2, passes through the Project site, then ultimately discharges to an extension of Canal-1 outside of the Project site. This feature conveys stormwater runoff from the adjacent roads and uplands within the Caltrans I-5 right-of-way to Canal-1. Ditch-2 exhibited a prominent OHWM that was approximately 7 feet wide and 1 foot deep with several indicators observed. A slight break in slope was present at the OHWM and there was a large coverage of biotic crust and soil cracks observed below the OHWM. The vegetation cover changed from approximately 25% below the OHWM to approximately 75% above the OHWM. When not inundated with water, Ditch-2 is best characterized as Perennial Rye Grass Field vegetation community. The dominant vegetation species changed from Annual Beard Grass (*Polypogon monspeliensis*; FACW), Tall Flatsedge (FACW), and Curly Dock (FAC) below the OHWM to Wild Oats (NL), Chicory (FACU), Bird's Foot Trefoil (*Lotus corniculatus*; FAC), and Perennial Pepperweed (FAC). There was surface water present in this ditch feature at the time of the October 2021 surveys but the feature was dry at the time of the July 2022 survey.

5.3 Annexation Area

Bargas examined data layers within the NHD and NWI to determine potential jurisdictional features within the Annexation Area. For linear features, both datasets show the area's canals and no other feature types. Several wetland features, however, are mapped by the NWI within the Annexation Area. These are discussed below and shown on **Exhibit 5**.

5.3.1 PEM1A

NWI features classified as PEM1A are located in the northwest corner of the Annexation Area (approximately 1.4 acres) and north-central portion of the Annexation Area (approximately 2.3 acres), the latter of which is connected to an area mapped as PEM1C (discussed below in **Section 5.3.2**). The NWI's definition of PEM1A features is as follows:

Palustrine - Emergent Persistent - Temporarily Flooded



Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Persistent Emergent wetlands are dominated by plants which have leaves and stems above the surface of the water during the entire year. In these wetlands emergent plants are the tallest life form and cover > 30% of the area.

This wetland is Temporarily Flooded with surface water present for a few days to a few weeks during the growing season. The water table usually lies well below the ground surface for the most of the season.

Typical species include:

Cattails (Typha), Bulrushes (Scirpus), Saw grass (Cladium jamaicense), Sedges (Carex), Manna grasses (Glyceria), Slough grass (Beckmannia syzigachne), Common river grass (Scolochloa festucacea), Purple loosestrife (Lythrum salicaria), Mexican dock (Rumex mexicanus), Swamp loosestrife (Decodon verticillatus), Smartweeds (Polygonum)

5.3.2 PEM1C

An NWI feature classified as PEM1C measuring approximately 4 acres in extent is located in the north-central portion of the Annexation Area and is connected to an area mapped as PEM1A (discussed above in **Section 5.3.1**). The NWI's definition of PEM1C features is as follows:

Palustrine- Emergent Persistent - Seasonally Flooded

Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Persistent Emergent wetlands are dominated by plants which have leaves and stems above the surface of the water during the entire year. In these wetlands emergent plants are the tallest life form and cover > 30% of the area.

This wetland is Seasonally Flooded with surface water present for extended periods during the growing season but absent by the end of the season in most years. When surface water is absent the depth to substrate saturation may vary considerably among sites and among years.

Typical species include:

Cattails (Typha), Bulrushes (Scirpus), Saw grass (Cladium jamaicense), Sedges (Carex), Manna grasses (Glyceria), Slough grass (Beckmannia syzigachne), Common river grass (Scolochloa festucacea), Purple loosestrife (Lythrum salicaria), Mexican dock (Rumex mexicanus), Swamp loosestrife (Decodon verticillatus), Smartweeds (Polygonum)



5.3.3 PSSC

An NWI feature classified as PSSC measuring approximately 1.5 acres in extent is located in the southeast portion of the Annexation Area. The NWI's definition of PSSC features is as follows:

Palustrine - Shrub/Scrub - Seasonally Flooded

Palustrine wetlands are often dominated by trees, shrubs, or other emergent vegetation and include habitats traditionally called marsh, swamp, bog, fen, or prairie. Wetlands lacking emergent vegetation but that are smaller than 20 acres (8 ha), have little wave action, are < 8.2 feet (2.5 m) deep, and have salinity < 0.5 ppt are also classified as Palustrine.

Shrub/Scrub wetlands are dominated by woody plants < 6m (20 ft) tall that cover > 30% of the area. While these wetlands only occur in the Estuarine and Palustrine Systems, they are one of the most widespread wetland classes in the United States.

This wetland is Seasonally Flooded with surface water present for extended periods during the growing season but absent by the end of the season in most years. When surface water is absent the depth to substrate saturation may vary considerably among sites and among years.



Exhibit 4. Aquatic Resource Delineation Map

DRAFT



Exhibit 5. National Wetlands Inventory Within Annexation Area

DRAFT



6 Conclusion

A total of **2.081 acres (15,424 linear feet)** of aquatic features have been identified within the Project site, composed of three tributary drainages (three canals; Canal-1, Canal-2, Canal-3) and one other water (one irrigation drainage ditch; Ditch-1). Canal-3, the West Drainage Canal, is a managed (via pump stations) tributary to the Sacramento River, a USACE-designated traditional navigable waterway located approximately 1.3 miles to the southwest of the approximate center of the Project site. RD1000 operates several pumping plants to release water from the drainage canals to the Sacramento River in a controlled manner including the following:

- Pumping Plants 1A and 1B on the Natomas Main Drainage Canal connected to Canal-3 via box culvert under I-80, located approximately 0.6 miles west of Gateway Oaks Drive and approximately 4.6 miles southeast of the Project site center;
- Pumping Plant #3 on a lateral canal connected to Canal-3 via box culvert under a farm road, located along Garden Highway approximately 0.75 miles north of Radio Road and approximately 1.5 miles south of the Project site center; and
- Pumping Plant #5 on a lateral canal connected to Canal-3 via culvert pipes under a farm road, located along Garden Highway approximately 0.75 miles southeast of I-5 and approximately 2.5 miles west of the Project site center.

Canal-1 and Canal-2 are direct tributaries of Canal-3 and Ditch-1 has direct surface hydrologic connection to Canal-3. All features observed and mapped within the Project site are potentially USACE jurisdictional features. These features are subject to the interpretation and verification of the USACE Sacramento District Regulatory Division. All features observed are depicted in **Exhibit 4**.

Four wetland features mapped by the NWI as measuring approximately 9.4 acres in extent are potentially present within the Annexation Area. These features, however, have not been verified with a field delineation.

On April 6, 2022, the US Supreme Court voted to re-instate portions of the previous administration's USEPA – Clean Water Act wetland regulations criteria. It is not known at this time if this recent ruling will influence the USACE Sacramento Regulatory District as they process a wetland jurisdictional determination for this Project. Upon the USACE and USEPA issuing modified regulations based upon the recent court ruling, Bargas will relay the changes to the applicant to discuss if any of the regulation changes modify the aquatic resources delineation for the proposed Project.



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Appendix A. Representative Site Photographs



Photo 1. The north end of Ditch-1, looking south from Bayou Way.



Photo 2. The south end of Ditch-1, looking south towards OHWM SP-1 and Canal-3 (West Drainage Canal). Ditch-1 widens north of Canal-3.



Photo 3. Ditch-1 at OHWM SP-2, looking west across the channel.



Photo 4. Canal-1 along Powerline Road, looking south towards OHWM SP-3. A significant rain event occurred prior to conducting the survey, causing the canal to flood and an excess of stormwater sheet flow to pond in the adjacent agricultural field.



Photo 5. North side of Canal-2 looking west along the canal south of Bayou Way.



Photo 6. Canal-2 looking north towards OHWM SP-4.



Photo 7. Canal-3 (West Drainage Canal), looking west towards OHWM SP-5, located just west of where Canal-2 discharges to Canal-3.



Photo 8. Canal-3 (West Drainage Canal), looking east towards OHWM SP-6, located just east of where Canal-1 discharges to Canal-3.



Photo 9. Representative photo of a fallow agricultural field, this specific field being located in the eastern third of the Project site, looking south from Bayou Way.



Photo 10. Ditch-2, looking towards OHWM SP-7, located within the northern edge of the Project site, west of Metro Air Parkway.



Appendix B. Plant List

Common Name	Scientific Name	Wetland Indicator Status*
Western Poison Oak	<i>Toxicodendron diversilobum</i>	FACU
Poison Hemlock	<i>Conium maculatum</i>	FACW
Fennel	<i>Foeniculum vulgare</i>	NL
Italian Thistle	<i>Carduus pycnocephalus</i> ssp. <i>pycnocephalus</i>	NL
Yellow Star-Thistle	<i>Centaurea solstitialis</i>	NL
Chicory	<i>Cichorium intybus</i>	FACU
Bristly Ox-Tongue	<i>Helminthotheca echioides</i>	FAC
Milk Thistle	<i>Silybum marianum</i>	NL
Black Mustard	<i>Brassica nigra</i>	NL
Perennial Pepperweed	<i>Lepidium latifolium</i>	FAC
Jointed Charlock	<i>Raphanus raphanistrum</i>	NL
Bindweed	<i>Convolvulus arvensis</i>	NL
Wild Teasel	<i>Dipsacus fullonum</i>	FAC
Doveweed	<i>Croton setiger</i>	NL
Bird's Foot Trefoil	<i>Lotus corniculatus</i>	FAC
Valley Oak, Roble	<i>Quercus lobata</i>	FACU
Little Mallow	<i>Malva parviflora</i>	NL
Edible Fig	<i>Ficus carica</i>	FACU
White Mulberry	<i>Morus alba</i>	FACU
Curly Dock	<i>Rumex crispus</i>	FAC
Himalayan Blackberry	<i>Rubus armeniacus</i>	FAC
Fremont Cottonwood	<i>Populus fremontii</i> ssp. <i>fremontii</i>	NL
Goodding's Black Willow	<i>Salix gooddingii</i>	FACW
Tall Flatsedge	<i>Cyperus eragrostis</i>	FACW
Common Tule	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	OBL
Wild Oats	<i>Avena fatua</i>	NL
Ripgut Grass	<i>Bromus diandrus</i>	NL
Rye Grass	<i>Festuca perennis</i>	FAC
Little-Seeded Canary Grass	<i>Phalaris minor</i>	NL



Common Name	Scientific Name	Wetland Indicator Status*
Annual Beard Grass	<i>Polypogon monspeliensis</i>	FACW
Johnson Grass	<i>Sorghum halepense</i>	FACU
Wheat	<i>Triticum aestivum</i>	NL
Black Walnut	<i>Juglans nigra</i>	UPL
Duckweed species	<i>Lemna sp.</i>	OBL
Cattail species	<i>Typha sp.</i>	OBL

*Definitions:

- FAC – Facultative
- FACU – Facultative Upland
- FACW – Facultative Wetland
- UPL – Obligate Upland
- NL – Not listed

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- Appendix C. Arid West Wetland Data Forms

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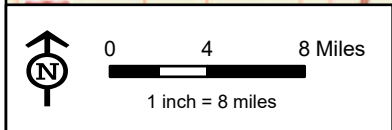
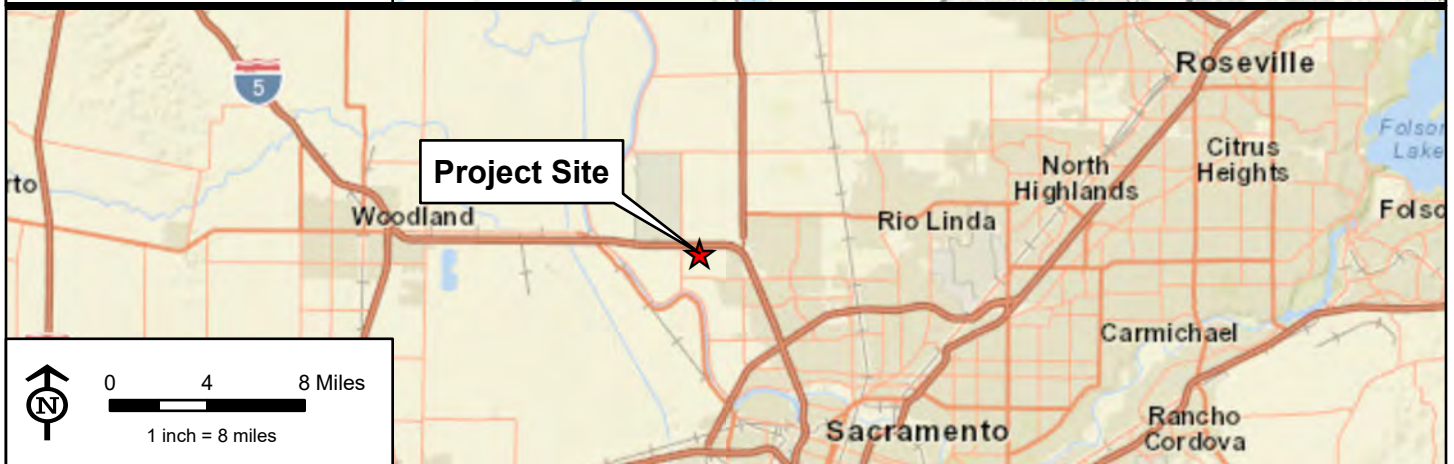
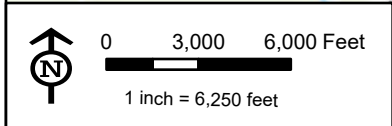
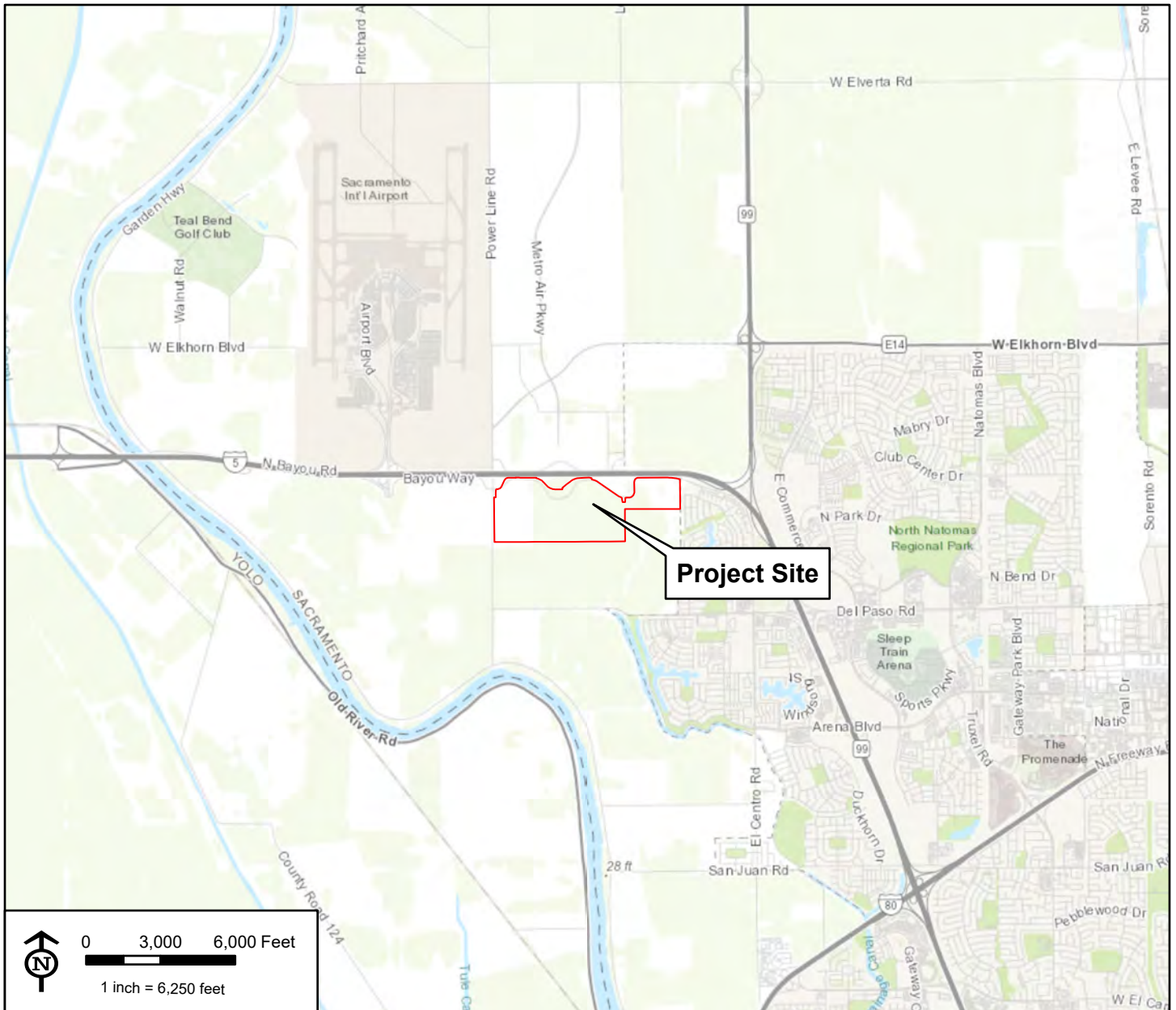
Appendix D. Custom Soil Resource Report

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Appendix E. GIS Shapefiles and ORM Upload Spreadsheet (electronic only attachment)

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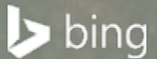
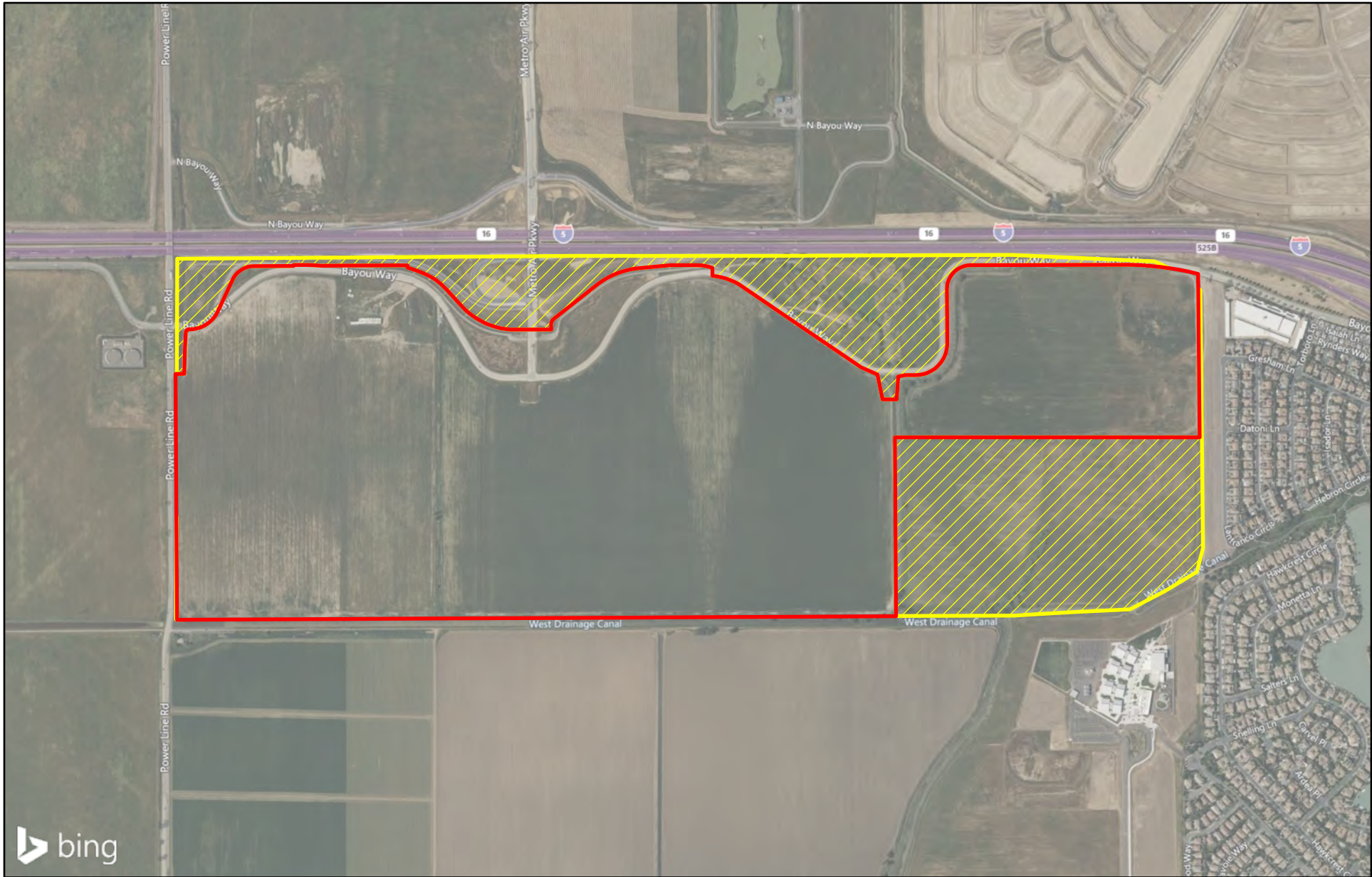
Source: ESRI ArcGIS Online Basemap - World Topographic Map, World Street Map

Public Land Survey System (PLSS):
 Mount Diablo Meridian, Township 9N, Range 4E, Section 05
 USGS Quad(s): Taylor Monument (1978)
 Watershed: Curry Creek-Sacramento River (1802016104)
 Project Site Coordinates: -121.567°W 38.67°N

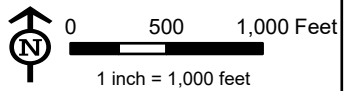


**Exhibit 1
 Project Site and Vicinity**

Airport South Industrial Park



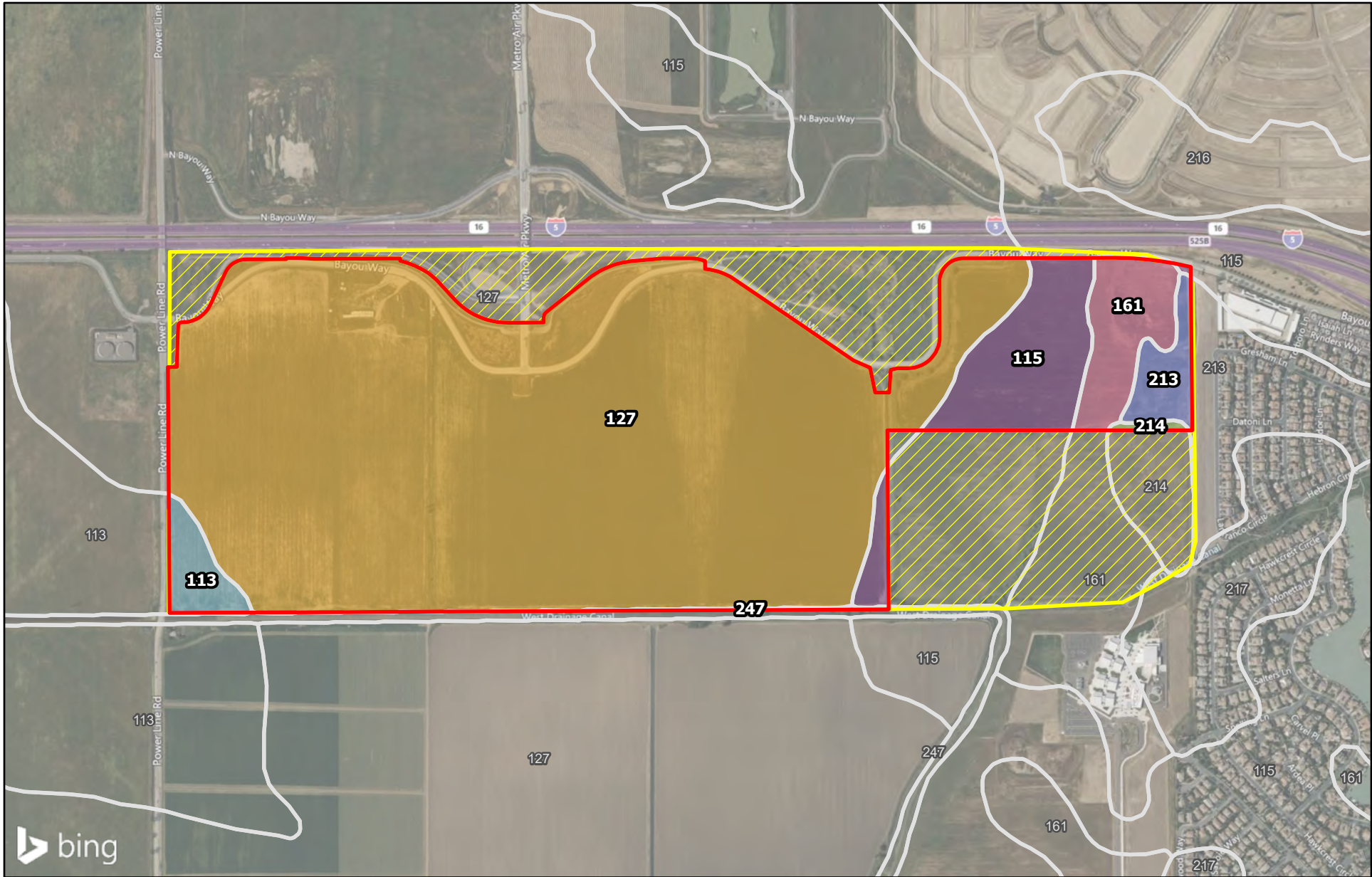
Source: Bing Maps Hybrid





- Project Site
- Annexation Area











**Exhibit 2
Study Areas**

Airport South Industrial Park



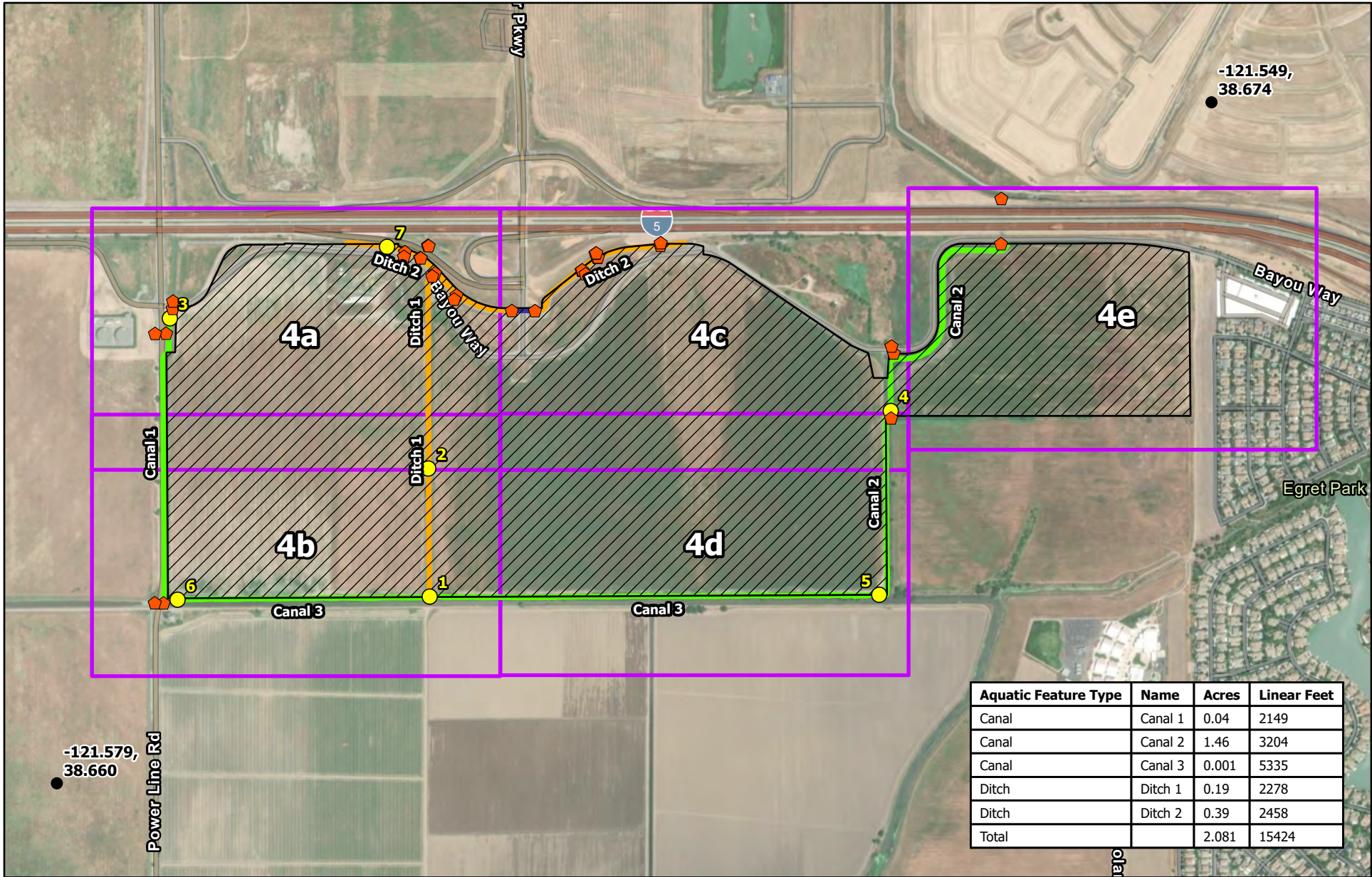
Source: Bing Maps Hybrid, NCRS Soils Data (10/2021)


 0 500 1,000 Feet
 1 inch = 1,000 feet


<ul style="list-style-type: none">  Project Site  Annexation Area  Surrounding SSURGO Soils <p>SSURGO Soils</p> <ul style="list-style-type: none">  113 - Capay clay loam, 0 to 3 percent slopes, occasionally flooded  115 - Clear Lake clay, hardpan substratum, drained, 0 to 1 percent slopes  127 - Cosumnes silt loam, partially drained, 0 to 2 percent slopes  161 - Jacktone clay, drained, 0 to 2 percent slopes  213 - San Joaquin silt loam, leveled, 0 to 1 percent slopes  214 - San Joaquin silt loam, 0 to 3 percent slopes  247 - Water

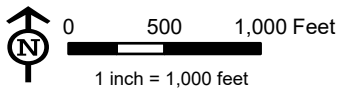
**Exhibit 3
Soils Map**

Airport South Industrial Park



Aquatic Feature Type	Name	Acres	Linear Feet
Canal	Canal 1	0.04	2149
Canal	Canal 2	1.46	3204
Canal	Canal 3	0.001	5335
Ditch	Ditch 1	0.19	2278
Ditch	Ditch 2	0.39	2458
Total		2.081	15424

Source: Bing Maps Hybrid



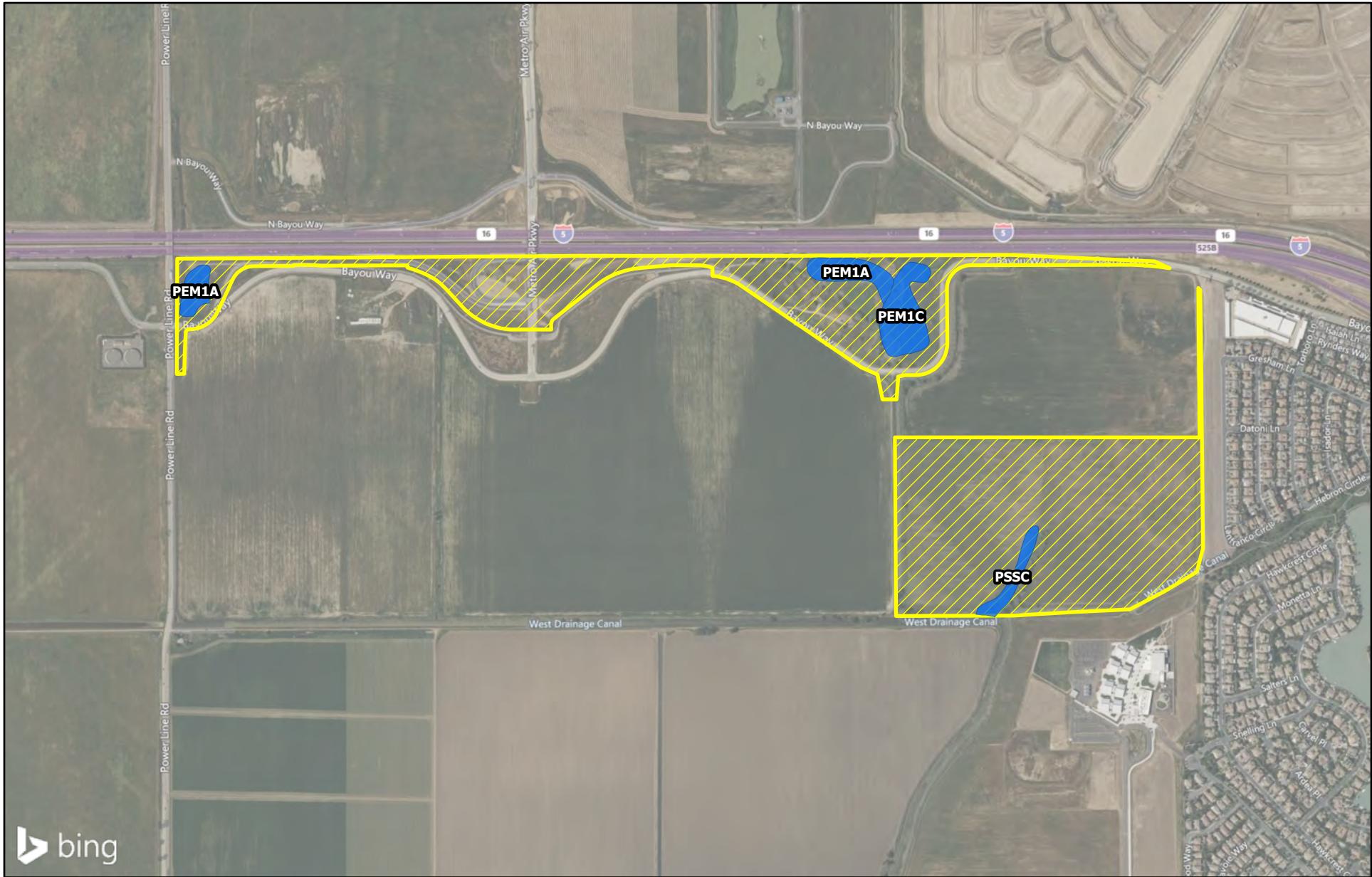
Surveyor Name: Krystal Pulsipher
 Map Date: 4/25/2022
 Map Author: David Duncan
 Date Revised: 7/18/2022
 Aerial Source: Bing Maps Hybrid
 Coordinate System:
 NAD 1983 UTM Zone 11N

- Project Site
- Map Page
- Box Culvert
- Map Reference Point
- Sample Point
- Culvert Point

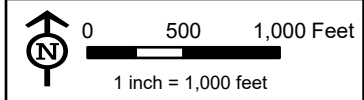
- Aquatic Features**
- Canals 1, 2, and 3
 - Ditch 1 and 2

Exhibit 4
Aquatic Resource Delineation

Airport South Industrial Park



Source: Bing Maps Hybrid, National Wetlands Inventory



- Annexation Area
- Wetlands



**Exhibit 5
National Wetlands Inventory
Within Annexation Area**

Airport South Industrial Park

APPENDIX G



AIRPORT SOUTH INDUSTRIAL PARK
SACRAMENTO, CALIFORNIA

PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Rod Stinson
Assistant Division Manager
Raney Planning & Management, Inc.
1501 Sports Drive
Sacramento, CA 95834

PREPARED BY
ENGEO Incorporated

May 5, 2022

PROJECT NO.
19894.000.001

Project No.
19894.000.001

May 5, 2022

Mr. Rod Stinson
Assistant Division Manager
Raney Planning & Management, Inc.
1501 Sports Drive
Sacramento, CA 95834

Subject: Airport South Industrial Park
Metro Parkway
Sacramento, California

PRELIMINARY GEOTECHNICAL EXPLORATION

Dear Mr. Stinson:

ENGEO prepared this geotechnical report for Raney Planning & Management, Inc. as outlined in our agreement dated January 11, 2022. We characterized the subsurface conditions at the site to provide the enclosed preliminary geotechnical recommendations.

Based upon our initial assessment, it is our opinion that the proposed development is feasible from a geotechnical standpoint. Design-level exploration should be conducted prior to site development once information is available regarding the building layout, structural loads, and proposed grading.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions or comments regarding this preliminary geotechnical report, please call and we will be glad to discuss them with you.

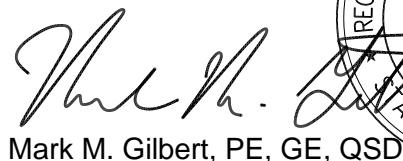
Sincerely,

ENGEO Incorporated



Travis Chatters, PE, QSD

tc/mmg/ar



Mark M. Gilbert, PE, GE, QSD



TABLE OF CONTENTS

LETTER OF TRANSMITTAL

1.0	INTRODUCTION	1
1.1	PURPOSE AND SCOPE	1
1.2	PROJECT LOCATION	1
1.3	PROJECT DESCRIPTION.....	1
2.0	FINDINGS	2
2.1	AERIAL PHOTO REVIEW	2
2.2	FIELD EXPLORATION	2
2.2.1	Borings.....	2
2.2.2	Cone Penetration Tests	3
2.3	GEOLOGY	3
2.4	SEISMICITY	3
2.5	SURFACE CONDITIONS	4
2.6	SUBSURFACE CONDITIONS.....	4
2.7	GROUNDWATER CONDITIONS	5
2.8	LABORATORY TESTING	5
2.9	PRELIMINARY LIQUEFACTION ANALYSES	5
3.0	PRELIMINARY CONCLUSIONS	6
3.1	EXPANSIVE SOIL.....	6
3.2	EXISTING FILL	7
3.3	SEISMIC HAZARDS	7
3.3.1	Ground Rupture	7
3.3.2	Ground Shaking	7
3.3.3	Liquefaction.....	8
3.3.4	Flooding	8
3.4	SOIL CORROSION POTENTIAL.....	8
3.5	2019 CBC SEISMIC DESIGN PARAMETERS.....	9
4.0	PRELIMINARY EARTHWORK RECOMMENDATIONS.....	10
4.1	EXPANSIVE SOIL MITIGATION	10
4.2	EXISTING FILL REMOVAL	10
4.3	GENERAL SITE CLEARING	10
4.4	ACCEPTABLE FILL	10
4.5	OVER-OPTIMUM SOIL MOISTURE CONDITIONS.....	11
4.6	FILL COMPACTION.....	11
5.0	PRELIMINARY FOUNDATION RECOMMENDATIONS.....	12
6.0	PRELIMINARY RETAINING WALL RECOMMENDATIONS.....	12
7.0	PRELIMINARY PAVEMENT RECOMMENDATIONS.....	13
7.1	FLEXIBLE PAVEMENTS	13
7.2	RIGID PAVEMENTS	13
8.0	PRELIMINARY EXTERIOR FLATWORK RECOMMENDATIONS.....	14
9.0	DESIGN-LEVEL GEOTECHNICAL REPORT.....	14

TABLE OF CONTENTS (Continued)

10.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS 14

SELECTED REFERENCES

FIGURES

APPENDIX A – Exploration Logs

APPENDIX B – CPT Data

APPENDIX C – Laboratory Test Data

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this preliminary geotechnical report for the proposed Airport South Industrial Park in Sacramento, California. As outlined in our agreement dated January 11, 2022, you authorized ENGEO to conduct the following scope of services.

- Service plan development
- Subsurface field exploration
- Soil laboratory testing
- Data analysis and conclusions
- Report preparation

For our use, we received the following.

- Concept Site Plan A1, Airport South Industrial Park, Sacramento, California, August 23, 2021, 1:500 scale.
- Preliminary Site Plan #1, Airport South Industrial, City of Sacramento, California, March 14, 2022, prepared by Wood Rodgers.

This report was prepared for the exclusive use of our client and their consultants for preliminary design of this project. If any changes are made in the character, design, or layout of the development, we must be contacted to review the conclusions and preliminary recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

The proposed project is to be located on an approximately 450-acre site that lies south of Interstate 5 at the Metro Air Parkway interchange in Sacramento, California. Figure 1 displays a Site Vicinity Map. The site is bordered by Interstate 5 to the north, Power Line Road to the west, farmland to the south, and residential subdivisions to the east. Figure 2 shows site boundaries and our exploration locations.

1.3 PROJECT DESCRIPTION

We understand from the Preliminary Site Plan prepared in March 2022, that the proposed Airport South Industrial Park project will consist of multiple large acreage parcels that will include industrial use, detention basins, “highway” parcels, paved roadways and parking areas, underground utilities, and a sewer pump station. Five of the parcels will include buildings ranging in size from 696,260 to 1,202,800 square feet in area. Basins on the site range in size from 3.5 to 40.6 acres.

The Concept Site Plan dated August 2021, which was used to prepare our proposal, had similar site features as the Preliminary Site Plan, but with different building and basin configurations. We understand that the Preliminary Site Plan is the most recent and more applicable document for the proposed development.

Based on our discussions with you, we understand the buildings will be tilt-up warehouse type structures. We assume that the structures will be no more than two stories in height. Structural loads and grading are yet to be determined; however, we assume that structural loads will be representative for this type of construction and that only minor grading will be required.

2.0 FINDINGS

2.1 AERIAL PHOTO REVIEW

We reviewed aerial photographs of the site dating back to 1947. We observed the following features in the historic aerial photographs.

- The site has historically been used for agriculture, which included rice farming and row crops.
- Several structures were observed near the northern and eastern borders of the site as far back as the 1947. The structures in the eastern portion of the site were no longer visible by 1984, and the structures along the northern border were no longer visible by 2009.
- Bayou Way was observed as of the 1993 photograph in its current alignment.
- Soil was stockpiled in the numerous smaller piles in the northeastern corner of the site in 2007 and 2008. We did not observe any stockpiles in the area during our exploration.
- Earthwork of the adjacent Metro Air Parkway overcrossing was observed as of 2020.

2.2 FIELD EXPLORATION

Our field exploration included drilling six borings and advancing two cone penetration test (CPT) soundings at the site. We performed our field exploration on March 22, 23, and 30, 2022. The location and elevations of our explorations are approximate and were estimated by using handheld GPS devices; they should be considered accurate only to the degree implied by the method used. We provide a brief description of the borings and CPTs below.

2.2.1 Borings

We observed drilling of six borings at the locations shown on the Site Plan, Figure 2. An ENGEO representative observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted CME-55 drill rig and crew to advance the borings using 4-inch-diameter solid-flight auger methods. The borings were advanced to depths ranging from 11½ to 18 feet below existing grade.

We obtained bulk soil samples from drill cuttings and retrieved samples at various intervals in the borings using split-spoon samplers. The blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 3-inch outside diameter (O.D.) modified California split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the last 1 foot of penetration; the blow counts have not been converted using any correction factors. When sampler driving was difficult, penetration was recorded only as inches penetrated for 50 hammer blows.

The logs depict subsurface conditions at the exploration locations for the date of exploration; however, subsurface conditions may vary with time. The exploration logs are included in Appendix A.

2.2.2 Cone Penetration Tests

We retained a CPT rig to push the cone penetrometer to a maximum depth of about 50 feet. The CPT has a 20-ton compression-type cone with a 15-square-centimeter (cm²) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm². The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D-5778. Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the surface sleeve (Fs), and pore pressure (U) (Robertson and Campanella, 1988). CPT logs are presented in Appendix B.

2.3 GEOLOGY

The site is located in the Great Valley geomorphic province. The Great Valley is an elongate, northwest-trending structural trough bound by the Coast Range on the west and the Sierra Nevada on the east. The Great Valley has been and is presently being filled with sediments primarily derived from the Sierra Nevada. The impact of periodic glaciation of the Sierra Nevada during the last global climate change was strongly felt by the Sacramento Valley River systems. Huge quantities of sediments were moved through the river systems fed by alpine glaciers during episodic Pleistocene glaciations. As these periods of glaciation ended, rivers draining the Sierra Nevada were made even more powerful by the considerably wetter climate and abundant meltwater. Abundant sediments left from the retreating glaciers were carried downstream into the Sierra Foothills and into the Sacramento Valley. At least four pulses of glacial outwash deposition are known to have taken place during glacial episodes of the past 2 million years (Harden, 1997). These deposits extend to depths of up to 3 miles on the western side of the Sacramento Valley and gradually thin out on the eastern side (Harwood and Helley, 1982).

As shown on Figure 3, the site was mapped as Holocene Alluvium, Holocene Basin Deposits, and the Middle Unit of the Riverbank Formation (Gutierrez, 2011 and Helley and Harwood, 1985). The Holocene Alluvium is described as unweathered gravel, sand, and silt that are poorly to moderately sorted deposited by the Sacramento River; we did not encounter sediments of this description in our explorations. Our explorations within the Holocene Alluvium area encountered sediments indicative of Holocene Basin Deposits (Qhb), which is mapped in the eastern portion of the site. Holocene Basin deposits are described as dark gray to black, fine-grained sediments deposited by standing or slow-moving water in topographic lows. The older Pleistocene Riverbank Formation is mapped along the eastern site boundary and is described as compact alluvium consisting of gravel, sand, silt, and clay deposits. Based on our exploration, it appears the Riverbank Formation underlies the Holocene Basin Deposits.

2.4 SEISMICITY

The Northern California region contains numerous active faults. An active fault is defined by the California Geologic Survey as one that has had surface displacement within Holocene time (about the last 11,700 years) (CGS, 2018). The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Figure 4, Regional Faulting and Seismicity, shows mapped active and historic faults and historic earthquake centers.

In Table 2.4-1, Nearby Seismic Sources, we summarize the distance to the fault rupture surface (R_{RUP}) and the associated moment magnitude for nearby seismic sources used for the National Seismic Hazard Maps, which are incorporated into the California Building Code (CBC). We obtained the data using the USGS Unified Hazard Tool (Dynamic Conterminous U.S. 2014 (update, v4.2.0) and disaggregated the hazard at the peak ground acceleration (PGA) for 2,475-year return period, and Site Class D. These results represent fault sources contributing at least one percent to the seismic hazard at the site; gridded or areal sources are not presented.

TABLE 2.4-1: Nearby Seismic Sources (Latitude: 38.4926 Longitude: -121.3220)

SOURCE	R_{RUP}		MOMENT MAGNITUDE
	(km)	(miles)	M_w
Great Valley 04a – Trout Creek [2]	43.2	26.8	7.11
Great Valley 03a Dunnigan Hills [0]	21.1	13.1	6.19
Hunting Creek – Berryessa [3]	60.2	37.4	7.49
Great Valley 06 (Midland) alt1 [0]	35.8	22.2	6.87

Source: USGS Unified Hazard Tool (USGS, n.d.)

Although the Foothill Fault System is not mapped in the USGS database, the Cleveland Hills Fault Segment near Oroville, part of the Foothill Fault System, is approximately 55 miles from the site and produced a Magnitude 5.8 earthquake in 1975. Segments of the Foothills Fault System located as close as 27 miles from the site are not considered active but could be capable of a large magnitude earthquake.

2.5 SURFACE CONDITIONS

While no topographic information was provided, we relied on data from Google Earth (Datum WGS84). Site topography generally slopes gently from the east to the west. Site grades from Google Earth range from Elevation 27 feet along the eastern border to Elevation 11 feet along the western border.

We observed the following site features during our reconnaissance.

- Seasonal grasses covered the site.
- Drainage channels cross the site in north-south and east-west directions. Additional channels border the site along the southern and western borders.
- Agricultural rows from former site usage in select areas of the site.

Please refer to the Site Plan, Figure 2, for more information on site features.

2.6 SUBSURFACE CONDITIONS

Our explorations generally encountered surficial soil consisting of hard lean to fat clay underlain by stiff to hard fat clay. Borings 1-B5 and 1-B6 encountered poorly graded sand with clay and gravel and well graded sand with silt, respectively, below the lean clay, at depths ranging from 13 to 16 feet below ground surface. Undocumented fill was encountered at Boring 1-B5 to a depth of approximately 4 feet below ground surface. We performed plasticity index (PI) tests on select soil samples, which yielded results of 36, 41, and 55, indicating high to very high shrink/swell

potential. Additionally, we performed expansion index (EI) tests, which yielded EI results of 83 and 110, indicating moderate to high expansion potential. We did not encounter any noticeably weak or compressible soil in our exploratory borings.

Consult the Site Plan and boring logs for specific subsurface conditions at each location. We include our exploration logs in Appendix A. The logs contain the soil type, color, consistency, and visual classification in general accordance with the Unified Soil Classification System. The logs graphically depict the subsurface conditions encountered at the time of the exploration.

2.7 GROUNDWATER CONDITIONS

We observed groundwater in two of our subsurface explorations. We summarize our observations in the table below:

TABLE 2.7-1: Groundwater Observations

EXPLORATION LOCATION	APPROX. DEPTH TO GROUNDWATER (feet)
1-B5	18
1-B6	10

We also performed pore pressure dissipation tests in our CPTs to measure hydrostatic conditions and estimate the depth to groundwater. We summarize the results of the pore pressure dissipation tests in the table below.

TABLE 2.7-2: Groundwater Depths Based on Pore Pressure Dissipation Tests

EXPLORATION ID	INTERPRETED DEPTH TO GROUNDWATER (feet)
1-CPT1	5.5
1-CPT2	3.8

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

2.8 LABORATORY TESTING

We performed laboratory tests on selected soil samples to evaluate their engineering properties. For this project, we performed moisture content, dry density, unconfined compression, plasticity index, expansion index, and soil corrosion potential testing. Moisture contents and dry densities are recorded on the boring logs in Appendix A; other laboratory data is included in Appendix C.

2.9 PRELIMINARY LIQUEFACTION ANALYSES

Soil liquefaction results from loss of strength during cyclic loading, such as that imposed by an earthquake. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded fine sands below the groundwater table. Empirical evidence indicates that loose silty sands as well as lean silts and some clays are also potentially liquefiable. When seismic ground shaking occurs, the soil is subjected to cyclic shear stresses that can cause excess hydrostatic pressures to develop. If excess hydrostatic pressures exceed the effective confining stress of the soil, it is said to have liquefied, and if the sand consolidates or vents to the surface during and following liquefaction, ground settlement and surface deformation may occur. In some cases, observed

settlement has been amplified directly beneath a building, due to the cyclic rocking of the building foundation, as compared to the surrounding ground surface. This is referred to as the “ratcheting” effect and is thought to be caused by the interaction of the building foundation and the surrounding soil during seismic shaking.

In accordance with the 2019 California Building Code (CBC) and the American Society of Civil Engineers (ASCE) Standard for Minimum Design Loads for Buildings and Other Structures (ASCE 7-16), we used the mapped MCE_G peak ground acceleration (PGA_M) of 0.34g for evaluation of liquefaction. We used an earthquake magnitude of 6.5 and a depth to groundwater of 4½ feet to evaluate potential liquefaction. Our depth to groundwater was based on the results of the pore dissipation tests.

For our CPT-based liquefaction analysis, we calculated potential liquefaction-induced triggering and vertical settlement using the commercially available program CLiq. We utilized the method published by Robertson (2009). The analysis indicates that there is a layer from approximately 25 to 30 feet that could potentially liquefy during a design earthquake event. The CLiq calculations suggest liquefaction-induced settlements would be up to 1½ inches under a design earthquake event at the CPT locations.

Based on the findings published by Youd and Garris in 1995, sufficiently thick non-liquefiable soil that overlies liquefiable layers provide a capping effect, which has been observed to result in much less ground surface deformation than indicated by theoretical liquefaction analyses. At the CPT location where potentially liquefiable sand was encountered, overlying layers of non-liquefiable soil approximately 25 feet thick were encountered.

Based on the information presented above, it is our opinion that the non-liquefiable surface soil layer should provide significant capping effect, and the overall ground surface deformation as a result of theoretical liquefaction-induced settlement will likely be less than the estimated theoretical values. These settlement estimates are preliminary and should be further evaluated during a design-level geotechnical exploration.

3.0 PRELIMINARY CONCLUSIONS

From a geotechnical engineering viewpoint, in our opinion, the site is suitable for commercial development, provided the preliminary geotechnical recommendations in this report are properly incorporated into future development planning. Based on our preliminary exploration, the primary geotechnical concern that could affect development on the site is expansive soil. We summarize this and other conclusions below.

3.1 EXPANSIVE SOIL

We observed expansive clay in our borings. Our laboratory testing indicates that this soil exhibits high to very high shrink/swell potential with variations in moisture content. Expansive soil changes in volume with changes in moisture. It can shrink or swell and cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Damage due to volume changes associated with expansive soil can be reduced by capping the expansive soil with a blanket of low-expansive soil, using a rigid mat foundation that is designed to resist the settlement and heave of expansive soil, or by deepening footings to below the zone of significant moisture fluctuation.

To reduce the potential for damage to the planned building, we recommend that the upper 2 feet of building pads extending at least 10 feet laterally beyond building areas be underlain by low-expansive fill. Due to the relatively flat nature of the site, selective grading to mitigate expansive soil will not be a practical alternative and imported fill is recommended. In lieu of importing low-expansive fill, lime treatment may be considered. We recommend that other structural elements, such as pavements and flatwork, be designed for highly expansive soil conditions.

Successful performance of structures on expansive soil requires special attention during construction. It is imperative that exposed soil be kept moist prior to placement of concrete for foundation construction. It can be difficult to remoisturize clayey soil without excavation, moisture conditioning, and recompaction.

We also provide preliminary grading recommendations for compaction of expansive clay soil. The purpose of these recommendations is to reduce the swell potential of the clay by compacting the soil at a higher moisture content and controlling the amount of compaction.

3.2 EXISTING FILL

Our borings encountered undocumented fill at Boing 1-B5 to a depth of approximately 4 feet below ground surface. Non-engineered fill can undergo excessive settlement, especially under new fill or building loads. We recommend complete removal and recompaction of existing fill. We present fill removal recommendations in Section 4.2.

3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. Common secondary seismic hazards include ground shaking and liquefaction. These hazards are discussed below as they apply to the site. Based on topographic and lithologic data, the risk of regional subsidence or uplift, lateral spreading, landslides, tsunamis, or seiches is considered low to negligible at the site.

3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.3.2 Ground Shaking

To mitigate the shaking effects, structures should be designed using sound engineering judgment and the 2019 California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage

would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

3.3.3 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded, fine-grained sand. Liquefiable soil was identified at 1-CPT1 at a depth of 25 to 30 feet below ground surface, and a predicted liquefaction-induced vertical settlement of up to 1½ inches was calculated. However, there is a sufficiently thick non-liquefiable “capping” layer above the liquefiable soil as to prevent significant vertical settlement at the site. Based on our engineering judgement, we determined that while liquefaction of the select subsurface soil layers is possible at the site, the overall ground surface deformation, as a result of theoretical liquefaction-induced settlement, will likely be less than the estimated theoretical values.

Further liquefaction analysis should be performed as part of the design-level study.

3.3.4 Flooding

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Maps for Sacramento County (Maps No. 06067C0040J and 06067C0045J) dated June 16, 2015, the site is mapped in Zone A, which is identified as a special flood hazard area without base flood elevation. According to FEMA, this designation means that the site is lower than the Base Flood Elevation. The civil engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.4 SOIL CORROSION POTENTIAL

We obtained two representative soil samples and submitted them to an analytical lab for determination of pH, resistivity, sulfate, and chloride. The results are included in Appendix C and summarized in Table 3.4-1.

TABLE 3.4-1: Corrosivity Test Results

SAMPLE LOCATION	DEPTH	PH	RESISTIVITY (ohms-cm)	CHLORIDE (ppm)	SULFATE (ppm)
1-B1	3.5	7.76	1,260	15.2	84.3
1-B6	3.5	7.51	1,020	10.5	37.0

The sulfate results of up to 84.3 ppm correspond to 0.00843% by weight sulfate. In accordance with ACI 318-14, Section 19.3.1 for concrete durability requirements, the results are classified as Exposure Class S0 since they are below 0.1% by weight. The 2019 CBC and ACI 318 do not specify cement type and water-cement ratio for Exposure Class S0. We defer to the structural engineer for concrete specifications.

Soil with a resistivity between 1,000 to 3,000 ohms-cm is considered highly corrosive to buried metal piping (Roberge, 2006). Based on the resistivity measurements the soil is considered highly corrosive to buried metal piping. Values tested for chloride do not appear to pose a significant impact to metals or concrete.

If desired to investigate this further, we recommend a corrosion consultant be retained to evaluate if specific corrosion recommendations are advised for the project.

3.5 2019 CBC SEISMIC DESIGN PARAMETERS

The 2019 CBC utilizes seismic design criteria established in the ASCE/SEI Standard “Minimum Design Loads and Associated Criteria for Buildings and Other Structures,” (ASCE 7-16). Based on the subsurface conditions encountered, we characterized the site as Site Class D.

ASCE 7-16 requires a site-specific ground-motion hazard analysis for Site Class D sites with a mapped S_1 value greater than or equal to 0.2; however, Section 11.4.8 of ASCE 7-16 and Supplement No. 3 provide an exception to this requirement. A site-specific ground-motion hazard analysis is not required where the value of the parameter S_{M1} determined by Equation 11.4-2 and shown in Table 1 is increased by 50 percent for developing the mapped Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response, calculating S_{D1} , and evaluating C_s in accordance with Chapter 12 of ASCE 7-16.

In Table 3.5-1 below, we provide the CBC seismic parameters based on the United States Geological Survey’s (USGS) Seismic Design Maps for your use. When using this table, considerations should be given to exceptions in Section 11.4.8 of ASCE 7-16, as described in this report.

TABLE 3.5-1: 2019 CBC Seismic Design Parameters, Latitude: 38.6670° Longitude: -121.5642°

PARAMETER	VALUE
Site Class	D
Mapped MCE _R Spectral Response Acceleration at Short Periods, S_S (g)	0.602
Mapped MCE _R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.262
Site Coefficient, F_a	1.318
Site Coefficient, F_v	Null*
MCE _R Spectral Response Acceleration at Short Periods, S_{MS} (g)	0.794
MCE _R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	Null*
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	0.529
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	Null*
Mapped MCE Geometric Mean (MCE _G) Peak Ground Acceleration, PGA (g)	0.253
Site Coefficient, F_{PGA}	1.347
MCE _G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.341
Long period transition-period, T_L (sec)	12

*The parameters above should only be used for calculation of T_s , determination of Seismic Design Category, and, when taking the exceptions under Items 1 and 2 of ASCE 7-16 Section 11.4.8. (Supplement Number 3 <https://ascelibrary.org/doi/epdf/10.1061/9780784414248.sup3>).

We recommend that we collaborate with the structural engineer of record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a site-specific ground-motion hazard analysis. We can prepare a proposal for a site-specific ground-motion hazard analysis, if requested.

4.0 PRELIMINARY EARTHWORK RECOMMENDATIONS

The preliminary recommendations included in this report should be utilized for project planning purposes and are intended for the areas of the site that will be developed with structural improvements. These areas include, but are not limited to building pads, sidewalks, pavement areas, and retaining walls. Prior to development, we should be retained to provide a design-level geotechnical report for the development.

4.1 EXPANSIVE SOIL MITIGATION

As previously mentioned, potentially expansive clay was encountered in our explorations. To reduce the risk of structural damage associated with the highly expansive soil conditions, we recommend constructing the upper 2 feet of building pads with low-expansive fill. As an alternative to importing low-expansive fill for the building pads, lime treatment may also be considered. Low-expansive soil is defined as having a plasticity index less than 12.

4.2 EXISTING FILL REMOVAL

On a preliminary basis, the undocumented fill should be removed to competent native soil, as evaluated by ENGEO. Figure 2 displays the approximate lateral extent of the previously mentioned undocumented fill at the site. The lateral extent and depth of fill is expected to vary and should be further evaluated during a design-level report.

4.3 GENERAL SITE CLEARING

Areas to be developed should be cleared of surface and subsurface deleterious materials, including existing building foundations, slabs, buried utility and irrigation lines, water and irrigation wells, pavements, debris, and designated trees, shrubs, and associated roots. Clean and backfill excavations extending below the planned finished site grades with suitable material compacted to the recommendations presented in Section 4.6. ENGEO should be retained to observe and test backfilling.

Following clearing, the site should be stripped to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Remove stripping's from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill.

4.4 ACCEPTABLE FILL

On-site soil is suitable as fill material provided it is processed to remove concentrations of organic material, debris, deleterious material, and particles greater than 6 inches in maximum dimension. Imported fill materials should meet the above requirements and have a plasticity index less than 12. Allow ENGEO to sample and test proposed imported fill materials at least 5 days prior to delivery to the site.

4.5 OVER-OPTIMUM SOIL MOISTURE CONDITIONS

The contractor should anticipate encountering excessively over-optimum (wet) soil moisture conditions during winter or spring grading, during or following periods of rain, or within swale areas. Wet soil can make proper compaction difficult or impossible. Wet soil conditions can be mitigated by:

1. Frequent spreading and mixing during warm dry weather,
2. Mixing with drier materials,
3. Mixing with a lime, lime-flyash, or cement product, or
4. Stabilizing with aggregate or geotextile stabilization fabric, or both.

Options 3 and 4 should be evaluated by ENGEO prior to implementation.

4.6 FILL COMPACTION

We recommend removal of existing fill, stripping of organics, scarification, moisture conditioning, and compaction of the soil prior to fill placement, following cutting operations, and in areas left at grade. Areas to receive fill should be scarified to a depth of 8 inches, moisture conditioned, and recompacted to provide adequate bonding with the initial lift of fill. Fill should be placed with a loose lift thickness no greater than 8 inches. The following compaction recommendations should be used for the placement and compaction of fill.

TABLE 4.6-1: Compaction and Moisture Content Requirements

DESCRIPTION	SOIL CHARACTERISTICS	RECOMMENDED RELATIVE COMPACTION (%)	MINIMUM MOISTURE CONTENT (percentage points above optimum)
Grading in Structural Areas	Expansive ($PI \geq 12$)	87 to 92	3
	Low-expansive soil ($PI < 12$)	90	1

Relative compaction refers to in-place dry density of the fill material expressed as a percentage of the maximum dry density as determined by ASTM D-1557. Optimum moisture is the moisture content corresponding to the maximum dry density. We recommend that the expansive soil be compacted at higher than optimum moisture contents as shown above to reduce potential swell.

Compact the upper 6 inches of expansive soil in pavement subgrade areas to at least 90 percent relative compaction at a moisture content at least 3 percentage points over optimum; compact low-expansive soil to at least 95 percent relative compaction at a moisture content at least 1 percentage point over optimum. Compact pavement Caltrans Class 2 aggregate base section to at least 95 percent relative compaction (ASTM D1557). Moisture condition aggregate base to or slightly above the optimum moisture content prior to compaction. Landscape fill can generally be compacted to a minimum of 85 percent relative compaction.

5.0 PRELIMINARY FOUNDATION RECOMMENDATIONS

We anticipate that one- to two-story commercial buildings can be supported on conventional footings and slab-on-grade systems over a building pad that has been mitigated for the highly expansive soil conditions (see Section 4.1). On a preliminary basis, shallow footings would need to be at least 1 foot wide and at least 2 feet deep. Footings may be designed for a maximum allowable bearing pressure of 4,000 pounds per square foot (psf) for dead-plus-live loads. This value can be increased by one-third for the short-term effects of wind or seismic loading.

While structural loads and column spacings are not yet known, we anticipate that total and differential settlements of the above-described foundations will be tolerable for the intended structures. Foundation settlements should be evaluated as part of the design level study.

Typical interior concrete slabs-on-grade are generally a minimum 5 inches thick and reinforced with No. 3 rebar on 18-inch centers each way within the middle third of the slab; thicker slabs-on-grade may be needed for industrial applications involving forklifts, rack, or equipment loading. The structural engineer would be involved in the final design thickness and additional reinforcement, as needed, for the intended structural loads and uses. When water vapor migrating through the slab-on-grade would be undesirable, interior concrete slabs-on-grade floors would likely be constructed over a moisture reduction system that utilizes a Class A vapor retarder membrane (ASTM E1745, latest edition) underlain by 4 inches of clean crushed rock.

6.0 PRELIMINARY RETAINING WALL RECOMMENDATIONS

Retaining walls should be designed to resist lateral earth pressures from adjoining natural material and/or backfill and from any surcharge loads. On a preliminary basis and provided that adequate drainage is included, design retaining walls to resist the equivalent fluid pressures summarized in Table 6.0-1.

TABLE 6.0-1: Recommended Lateral Soil Pressures

WALL CONDITION	EQUIVALENT FLUID PRESSURE (pounds per cubic foot, pcf)
Restrained Wall – Level Backfill	60
Unrestrained Wall – Level Backfill	45

Design restrained walls to resist an additional uniform pressure equivalent to one-half of any surcharge loads applied at the surface. Design unrestrained retaining walls to resist an additional uniform pressure equivalent to one-third of any surcharge loads applied at the surface.

The above lateral earth pressures assume sufficient drainage behind the walls to prevent any build-up of hydrostatic pressures from surface water infiltration and/or a rise in the groundwater level. If adequate drainage is not provided, we recommend that an additional equivalent fluid pressure of 40 pcf be added to the values recommended above for both restrained and unrestrained walls. Typical drainage systems include a 12-inch-thick layer of drainrock placed directly behind the wall with a perforated pipe at the bottom.

7.0 PRELIMINARY PAVEMENT RECOMMENDATIONS

7.1 FLEXIBLE PAVEMENTS

Due to the highly expansive clay that was encountered near the ground surface of our borings, it is our opinion that an R value of 5 is applicable for preliminary design. Using estimated traffic indices for various pavement-loading requirements, we developed the following recommended pavement sections using Topic 633 of the Caltrans Highway Design Manual (including the asphalt factor of safety), presented in the table below.

As an alternative, the pavement subgrade may be lime treated to increase the subgrade R-Value to a minimum of 40 and reduce the overall pavement section.

TABLE 7.1-1: Recommended Hot Mix Asphalt Concrete Pavement Sections

TRAFFIC INDEX	HOT MIX ASPHALT CONCRETE (inches)	CLASS 2 AB (inches)	
		NATIVE SUBGRADE	LIME-TREATED SUBGRADE
5	3	10	4
6	3½	13	6
7	4	16	7
8	5	18	9
9	5½	21	10
10	6½	23	12

The civil engineer should determine the appropriate traffic indices based on the estimated traffic loads and frequencies. Aggregate base (AB) should meet the requirements for ¾-inch maximum Class 2 AB in accordance with Section 26-1.02B of the latest Caltrans Standard Specifications. Compact pavement Class 2 AB to at least 95 percent relative compaction (ASTM D1557). Moisture condition AB to or slightly above the optimum moisture content prior to compaction.

The design-level report should include R-value testing to verify the appropriate design R-value.

7.2 RIGID PAVEMENTS

Rigid pavements are commonly used to resist heavy loads and turning forces in areas such as fire lanes, trash enclosures, and loading docks. Final design of rigid pavement sections, and accompanying reinforcement, should be performed based on estimated traffic loads and frequencies. On a preliminary basis, we recommend the following minimum design sections for rigid pavements.

- Use a minimum section of 6 inches of Portland Cement concrete over 8 inches of Caltrans Class 2 aggregate base.
- Concrete pavement should have a minimum 28-day compressive strength of 3,500 psi.
- Provide minimum control joint spacing in accordance with Portland Cement Association Guidelines.

Aggregate base should meet the requirements stated in Section 6.1.

8.0 PRELIMINARY EXTERIOR FLATWORK RECOMMENDATIONS

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Because of the highly expansive soil conditions at the site, thicker than normal concrete and aggregate base sections will be necessary to provide adequate long-term performance of exterior flatwork. For preliminary consideration, a section of 6 inches of concrete over 4 inches of aggregate base may be considered. Alternatively, subgrade soil for exterior flatwork can be lime-treated at least 18 inches deep to reduce the expansion potential and allow conventional flatwork construction. Flatwork edges can also be thickened so they extend to the subgrade soil to help control moisture variations in the subgrade. Lastly, flatwork can be reinforced with wire mesh or rebar within the middle third of the slab to help control the width and offset of cracks. Control and construction joints should be constructed in accordance with current Portland Cement Association Guidelines.

9.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This report presents findings, conclusions, and preliminary geotechnical recommendations intended for planning purposes only. Design-level geotechnical explorations should be performed when development plans are finalized. We anticipate the design-level geotechnical report will include:

- Additional field exploration and laboratory testing to support design-level recommendations, as needed.
- Design-level analyses related to geologic and geotechnical hazards.
- Seismic-hazard analyses based on the current building code, including a detailed liquefaction analysis.
- Design-level earthwork, foundations, and retaining wall recommendations.

10.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents preliminary geotechnical recommendations for project planning purposes of the improvements discussed in Section 1.3 for the Airport South Industrial Park project. If changes occur in the nature of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strived to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications, or other changes to ENGEO's documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications, or other changes before construction activities commence or further activity proceeds. If ENGEO's scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies, or other changes necessary to reflect changed field or other conditions.

We determined the lines designating the interface between layers on the exploration logs using visual observations. The transition between the materials may be abrupt or gradual. The exploration logs contain information concerning samples recovered, indications of the presence of various materials such as clay, sand, silt, rock, existing fill, etc., and observations of groundwater encountered. The field logs also contain our interpretation of the subsurface conditions between sample locations. Therefore, the logs contain both factual and interpretative information. Our recommendations are based on the contents of the final logs, which represent our interpretation of the field logs.

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FIGURES

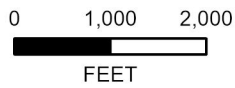
FIGURE 1: Vicinity Map

FIGURE 2: Site Plan

FIGURE 3: Regional Geologic Map (Gutierrez)

FIGURE 4: Regional Faulting and Seismicity Map

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BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 06/03/2021



VICINITY MAP
AIRPORT SOUTH INDUSTRIAL PARK
SACRAMENTO, CALIFORNIA

PROJECT NO. : 19894.000.001

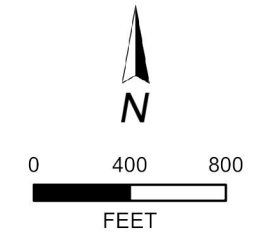
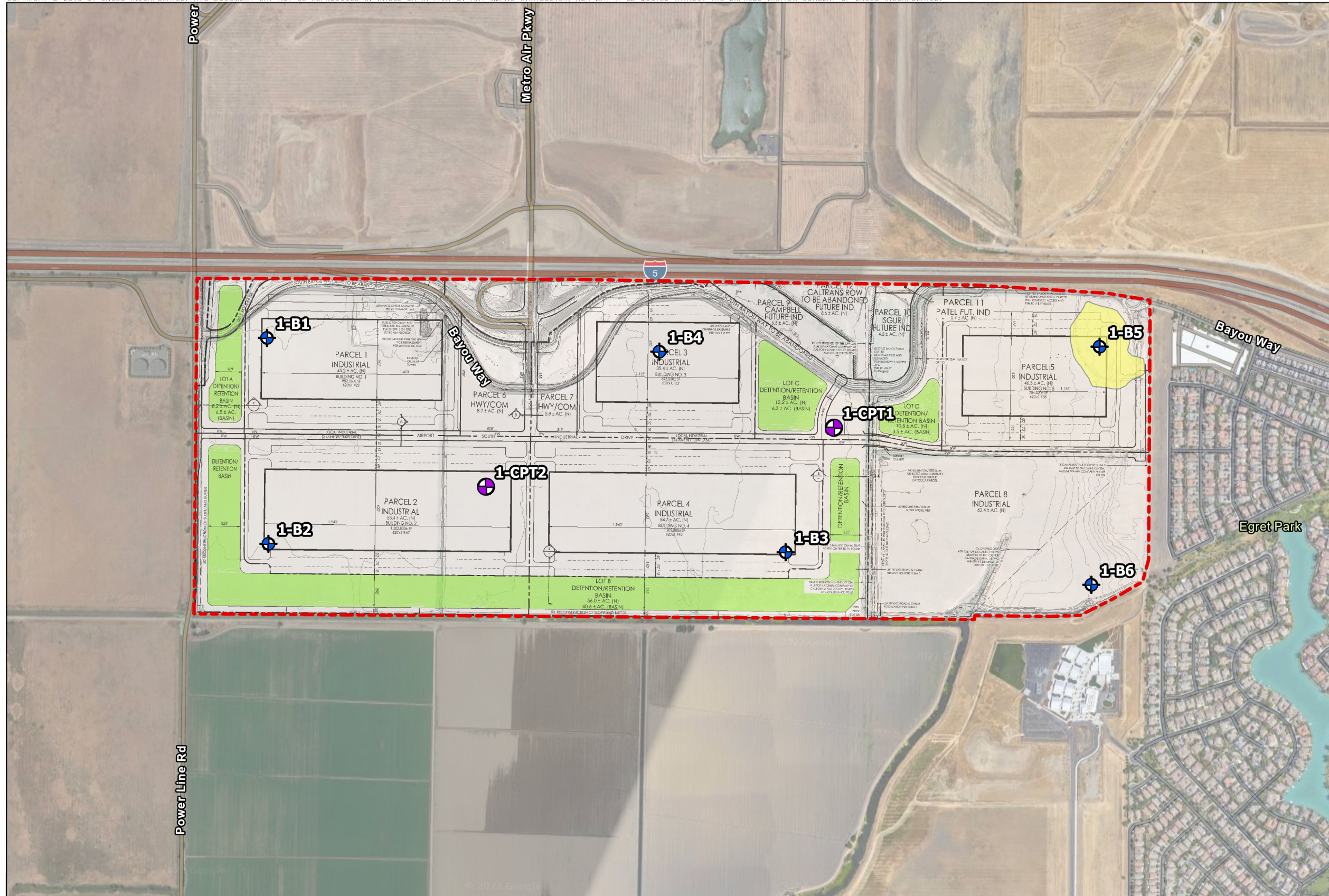
SCALE: AS SHOWN

DRAWN BY: NLK

CHECKED BY: GMM

FIGURE NO.

1



EXPLANATION
ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- ⊕ BORING (ENGeo, 2022)
- ⊕ CPT (ENGeo, 2022)
- POTENTIAL UNDOCUMENTED FILL

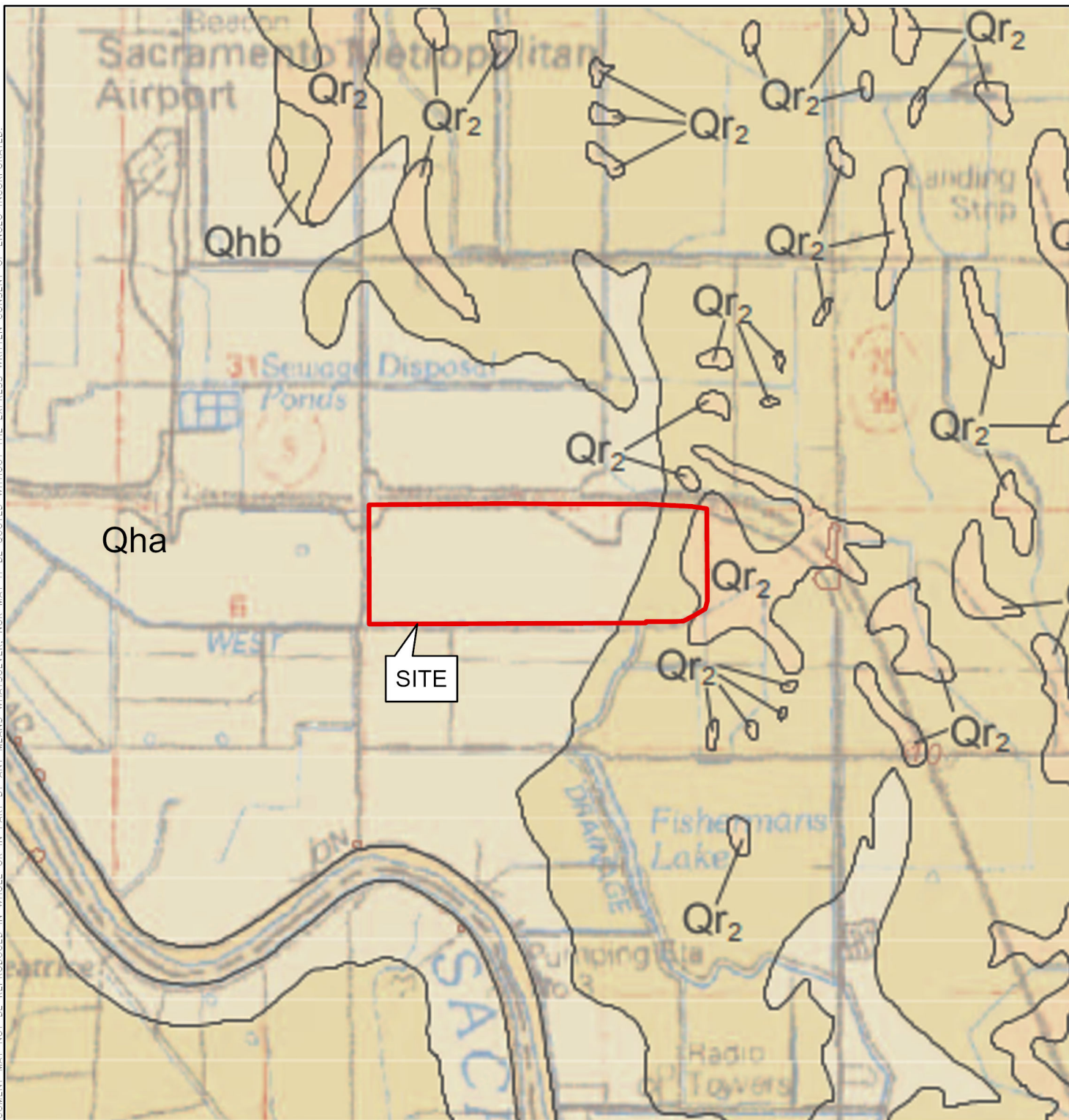
BASEMAP SOURCE: GOOGLE MAPPING SERVICE 06/03/2021 AND WOOD RODGERS 03/14/2022



SITE PLAN
AIRPORT SOUTH INDUSTRIAL PARK
SACRAMENTO, CALIFORNIA

PROJECT NO. : 19894.000.001	2
SCALE: AS SHOWN	
DRAWN BY: NLK CHECKED BY: GMM	

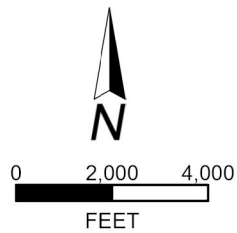
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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Qha** HOLOCENE ALLUVIUM
- Qhb** HOLOCENE BASIN DEPOSITS
- Qr₂** RIVERBANK FORMATION - MIDDLE UNIT



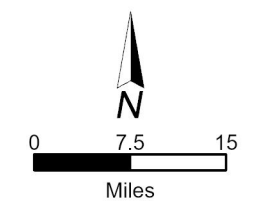
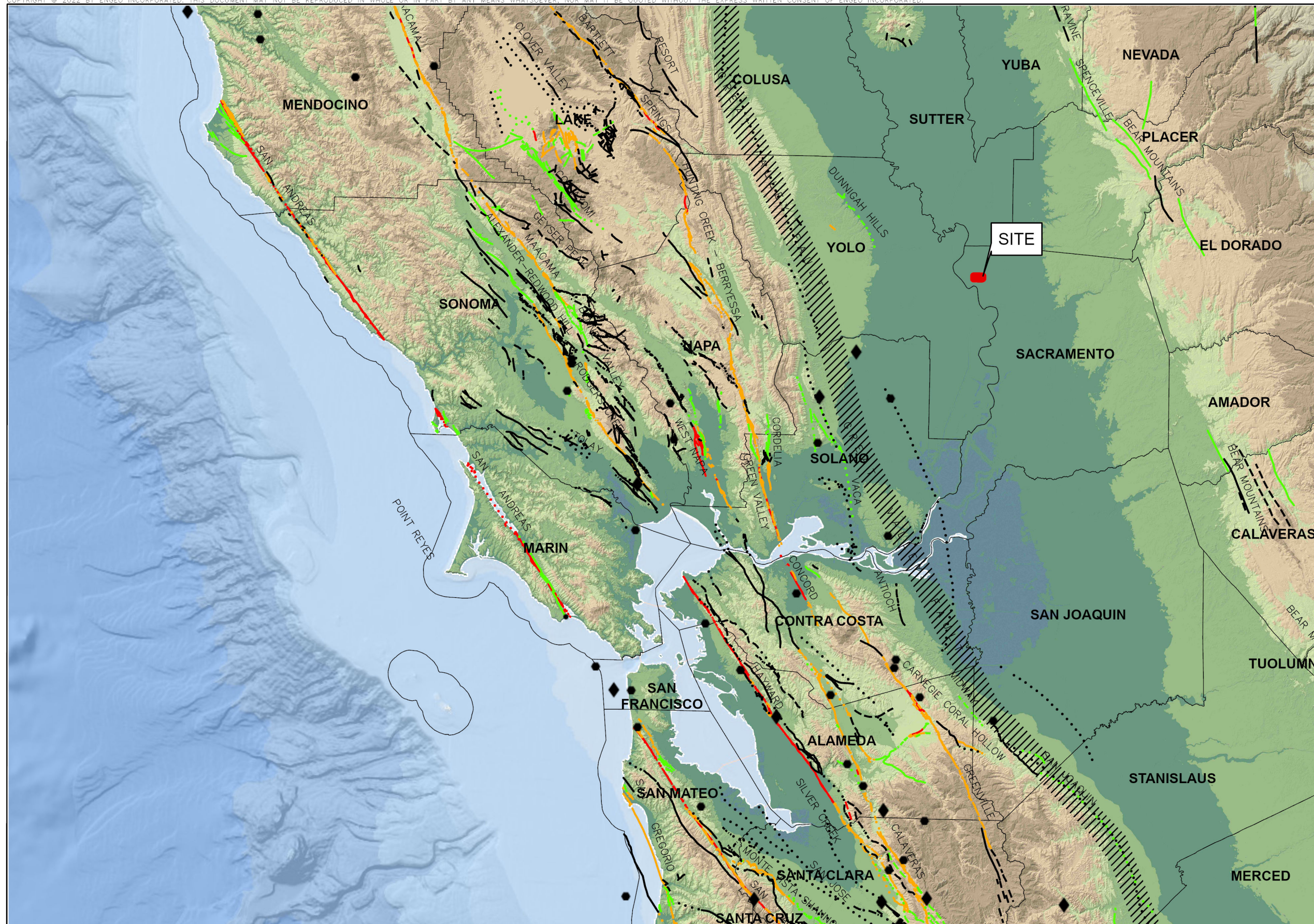
BASEMAP SOURCE: CGS - GEOLOGIC MAP OF SACRAMENTO (GUTIERREZ, 2011)



REGIONAL GEOLOGIC MAP
AIRPORT SOUTH INDUSTRIAL PARK
SACRAMENTO, CALIFORNIA

PROJECT NO. :	19894.000.001
SCALE:	AS SHOWN
DRAWN BY:	NLK
CHECKED BY:	GMM

FIGURE NO.
3



- EXPLANATION**
ALL LOCATIONS ARE APPROXIMATE
- EARTHQUAKE**
- ◆ MAGNITUDE 7+
 - MAGNITUDE 6-7
 - MAGNITUDE 5-6
- //// HISTORIC BLIND THRUST FAULT ZONE
- QUATERNARY FAULTS**
BASED ON TIME OF MOST RECENT SURFACE DEFORMATION
- HISTORICAL (<150 YEARS), WELL CONSTRAINED LOCATION
 - - - HISTORICAL (<150 YEARS), MODERATELY CONSTRAINED LOCATION
 - ... HISTORICAL (<150 YEARS), INFERRED LOCATION
 - LATEST QUATERNARY (<15,000 YEARS), WELL CONSTRAINED LOCATION
 - - - LATEST QUATERNARY (<15,000 YEARS), MODERATELY CONSTRAINED LOCATION
 - ... LATEST QUATERNARY (<15,000 YEARS), INFERRED LOCATION
 - LATE QUATERNARY (<130,000 YEARS), WELL CONSTRAINED LOCATION
 - - - LATE QUATERNARY (<130,000 YEARS), MODERATELY CONSTRAINED LOCATION
 - ... LATE QUATERNARY (<130,000 YEARS), INFERRED LOCATION
 - //// GREAT VALLEY FAULT ZONE

BASE MAP SOURCE
 ESRI, GEBCO, DELORME, NATURALVUE
 COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
 U.S.G.S. QUATERNARY FAULT DATABASE, 2018
 U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800-PRESENT)



REGIONAL FAULTING AND SEISMICITY
 AIRPORT SOUTH INDUSTRIAL PARK
 SACRAMENTO, CALIFORNIA

PROJECT NO. : 19894.000.001	FIGURE NO.
SCALE: AS SHOWN	4
DRAWN BY: NLK		CHECKED BY: GMM



APPENDIX A

KEY TO BORING LOGS EXPLORATION LOGS

KEY TO BORING LOGS

MAJOR TYPES		DESCRIPTION	
COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES	GW - Well graded gravels or gravel-sand mixtures GP - Poorly graded gravels or gravel-sand mixtures
		GRAVELS WITH OVER 12 % FINES	GM - Silty gravels, gravel-sand and silt mixtures GC - Clayey gravels, gravel-sand and clay mixtures
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES	SW - Well graded sands, or gravelly sand mixtures SP - Poorly graded sands or gravelly sand mixtures
		SANDS WITH OVER 12 % FINES	SM - Silty sand, sand-silt mixtures SC - Clayey sand, sand-clay mixtures
FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS		ML - Inorganic silt with low to medium plasticity CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %		MH - Elastic silt with high plasticity CH - Fat clay with high plasticity OH - Highly plastic organic silts and clays
	HIGHLY ORGANIC SOILS		PT - Peat and other highly organic soils

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

GRAIN SIZES

U.S. STANDARD SERIES SIEVE SIZE				CLEAR SQUARE SIEVE OPENINGS				
	200	40	10	4	3/4 "	3"	12"	
SILTS AND CLAYS	SAND			GRAVEL			COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE			

RELATIVE DENSITY

<u>SANDS AND GRAVELS</u>	BLOWS/FOOT (S.P.T.)
VERY LOOSE	0-4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	OVER 50

CONSISTENCY

<u>SILTS AND CLAYS</u>	<u>STRENGTH*</u>
VERY SOFT	0-1/4
SOFT	1/4-1/2
MEDIUM STIFF	1/2-1
STIFF	1-2
VERY STIFF	2-4
HARD	OVER 4

MOISTURE CONDITION

DRY	Dusty, dry to touch
MOIST	Damp but no visible water
WET	Visible freewater

LINE TYPES

—————	Solid - Layer Break
-----	Dashed - Gradational or approximate layer break

GROUNDWATER SYMBOLS

	Groundwater level during drilling
	Stabilized groundwater level

SAMPLER SYMBOLS

	Modified California (3" O.D.) sampler
	California (2.5" O.D.) sampler
	S.P.T. - Split spoon sampler
	Shelby Tube
	Dames and Moore Piston
	Continuous Core
	Bag Samples
	Grab Samples
NR	No Recovery

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer





LOG OF BORING 1-B1

LATITUDE: 38.6695

LONGITUDE: -121.5745

Geotechnical Exploration
 Airport South Industrial Park
 Sacramento, CA
 19894.000.001

DATE DRILLED: 3/22/2022
 HOLE DEPTH: Approx. 16½ ft.
 HOLE DIAMETER: 4.0 in.
 SURF ELEV (WGS 84): Approx. 10 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
 DRILLING CONTRACTOR: Geo-Ex Subsurface
 DRILLING METHOD: Solid Flight Auger
 HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			LEAN CLAY (CL), brown, hard, moist, medium plasticity										
			FAT CLAY (CH), dark grayish brown, hard, moist, high plasticity	/		13	61	25	36	95		>4.5* 4.25*	
			Grades to stiff	/		18					26.7	4*	
5	5		Grades to very stiff	/		21						2.25*	
			Grades to hard, yellowish brown mottled with greenish gray	/		19					21.4	3*	
10	0		Grades to very stiff	/		33							
15	-5		Grades to very stiff	/		35					24	3.5*	
			Boring terminated at 16½ feet below ground surface. No groundwater was encountered.										

LOG - GEOTECHNICAL WIELEV - BORING LOGS.GPJ ENGEO INC.GDT 4/28/22



LOG OF BORING 1-B2

LATITUDE: 38.6651

LONGITUDE: -121.5743

Geotechnical Exploration
 Airport South Industrial Park
 Sacramento, CA
 19894.000.001

DATE DRILLED: 3/22/2022
 HOLE DEPTH: Approx. 11½ ft.
 HOLE DIAMETER: 4.0 in.
 SURF ELEV (WGS 84): Approx. 10 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
 DRILLING CONTRACTOR: Geo-Ex Subsurface
 DRILLING METHOD: Solid Flight Auger
 HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			LEAN CLAY (CL), brown, hard, moist, medium plasticity			17				99	33.2		4.5*
		EI = 83											
			FAT CLAY (CH), very dark grayish brown, very stiff, moist, high plasticity			14					30.6	84.3	3.75*
5	5					18							3.75*
			Grades to brown mottled with greenish gray			15							2.75*
10	0					29							
			Boring terminated at 12½ feet below ground surface. No groundwater was encountered.										



LOG OF BORING 1-B3

LATITUDE: 38.6651

LONGITUDE: -121.5601

Geotechnical Exploration
 Airport South Industrial Park
 Sacramento, CA
 19894.000.001

DATE DRILLED: 3/23/2022
 HOLE DEPTH: Approx. 11½ ft.
 HOLE DIAMETER: 4.0 in.
 SURF ELEV (WGS 84): Approx. 10 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
 DRILLING CONTRACTOR: Geo-Ex Subsurface
 DRILLING METHOD: Solid Flight Auger
 HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			LEAN CLAY (CL), brown, hard, moist, medium plasticity			19	81	26	55	94	31.2		>4.5*
			FAT CLAY (CH), very dark grayish brown, very stiff, moist, high plasticity, iron oxide staining observed			18							3.75*
5	5		Grades to very dark grayish brown mottled with greenish gray			19					24.7	101.6	2.25*
			Grades to brown mottled with greenish gray, calcium carbonate veins observed.			29							3.5*
10	0		Boring terminated at 12½ feet below ground surface. No groundwater was encountered.			21							2.5*



LOG OF BORING 1-B4

LATITUDE: 38.6694

LONGITUDE: -121.5636

Geotechnical Exploration
 Airport South Industrial Park
 Sacramento, CA
 19894.000.001

DATE DRILLED: 3/23/2022
 HOLE DEPTH: Approx. 16½ ft.
 HOLE DIAMETER: 4.0 in.
 SURF ELEV (WGS 84): Approx. 10 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
 DRILLING CONTRACTOR: Geo-Ex Subsurface
 DRILLING METHOD: Solid Flight Auger
 HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			LEAN CLAY (CL), dark brown to brown, hard, moist, medium plasticity			14				99	32.5		>4.5*
		EI = 110											
			FAT CLAY (CH), very dark brown, hard, moist, high plasticity, some iron oxide staining observed			14					35.4	80.6	1.5* 4.5*
5	5		Grades to reddish brown to brown mottled with greenish gray			25							4.25*
						28				20.7			4.5*
10	0		LEAN CLAY (CL), brown, hard, moist, medium plasticity, approximately 5% fine-grained sand			29							>4.5*
15	-5		Grades to stiff, Iron oxide staining observed			22					30.8		2*
			Boring terminated at 16½ feet below ground surface. No groundwater was encountered.										



LOG OF BORING 1-B5

LATITUDE: 38.6696

LONGITUDE: -121.5515

Geotechnical Exploration
 Airport South Industrial Park
 Sacramento, CA
 19894.000.001

DATE DRILLED: 3/23/2022
 HOLE DEPTH: Approx. 18 ft.
 HOLE DIAMETER: 4.0 in.
 SURF ELEV (WGS 84): Approx. 17 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
 DRILLING CONTRACTOR: Geo-Ex Subsurface
 DRILLING METHOD: Solid Flight Auger
 HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
15			SANDY FAT CLAY WITH GRAVEL (CH), very dark brown, hard, moist, high plasticity, approximately 30% fine- to coarse-grained sand, approximately 15% sub-rounded to sub-angular fine gravel [Fill]			19							4.5*
			Grades to very stiff			15							2.5*
5			FAT CLAY (CH), dark brown, stiff, moist, high plasticity [Native]				56	15	41	90	22.8		
			Abundant calcium carbonate veins and nodules observed			25							>4.5*
10			LEAN CLAY WITH SAND (CL), brown to light brown, hard, moist, medium plasticity, approximately 20% medium- to coarse-grained sand, moderate cementation			59					21		>4.5*
10			FAT CLAY (CH), brown to reddish brown, very stiff, moist, high plasticity, minor iron oxide staining observed			74							3.25*
5													
15			POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC), grayish brown, dense, moist, medium- to coarse-grained sand, approximately 15% sub-rounded to sub-angular fine gravel			85							
0			Grades to wet, fine to coarse gravel			25				8	7.8		
			Boring terminated at 18 feet below ground surface. Groundwater encountered at 18 feet.										

LOG - GEOTECHNICAL W/LEV. BORING LOGS.GPJ ENGEO INC.GDT 4/28/22



LOG OF BORING 1-B6

LATITUDE: 38.6644

LONGITUDE: -121.5516

Geotechnical Exploration
Airport South Industrial Park
Sacramento, CA
19894.000.001

DATE DRILLED: 3/23/2022
HOLE DEPTH: Approx. 18 ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS 84): Approx. 18 ft.

LOGGED / REVIEWED BY: R. Rud / MMG
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: Automatic Trip Hammer

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
15			FAT CLAY (CH), yellowish brown, hard, moist, high plasticity, iron oxide staining observed			33				86	19.3	>4.5*	
5			LEAN CLAY (CL), yellowish brown, hard, moist, medium plasticity, moderate cementation, iron oxide staining and veins of calcium carbonate observed			50/4						>4.5*	
10			SANDY LEAN CLAY (CL), reddish brown, very stiff, moist, low plasticity, approximately 35% fine-grained sand, iron oxide and abundant mica observed			>4.5					29.8	>4.5*	
10			LEAN CLAY (CL), reddish brown, stiff, moist, medium plasticity, strong iron oxide staining observed			31						2.25*	
10			FAT CLAY (CH), reddish brown with greenish gray, very stiff, moist, high plasticity, strong iron oxide staining observed		▽	51					24.4	3*	
5			WELL GRADED SAND WITH SILT (SW-SM), reddish brown, medium dense, wet, 11% fines, some mica flakes observed			29				11	34.8		
0			Boring terminated at 18 feet below ground surface. Groundwater encountered at 10 feet.										

LOG - GEOTECHNICAL W/LEV. BORING LOGS.GPJ ENGEO INC.GDT 4/28/22



APPENDIX B

CPT DATA



CPT Data Report

**Geo-Ex Subsurface Exploration
Dixon, CA**

Date: March 30, 2022

CPT Report 022-001-08 rev a



1. Introduction

This report has been prepared by Geo-Ex Subsurface Exploration on March 30, 2022. It contains the data of cone penetration tests at the South Airport Parkway in Natomas, CA using the CPeT-it software (version 3.2.1.7).

Geo-Ex Subsurface Exploration is a registered California Small Business Enterprise (Micro Business), located in Dixon, CA, providing among others CPT services to the geotechnical, environmental and construction industries.

Our corporate goal is to provide quality services as well as innovative solutions for our clients ever changing needs. We are also committed to providing cost-effective solutions, quality project management, schedule control and ensuring that all services are in compliance with all applicable regulatory requirements.

For more information, including a more complete listing of the services we can provide, please visit our website (www.geoexsubsurface.com) and for clarifications or additional information please contact our offices:

Tom Scott
Geo-Ex Subsubsurface Exploration
1510 Madera Dr.
Dixon, CA 95620

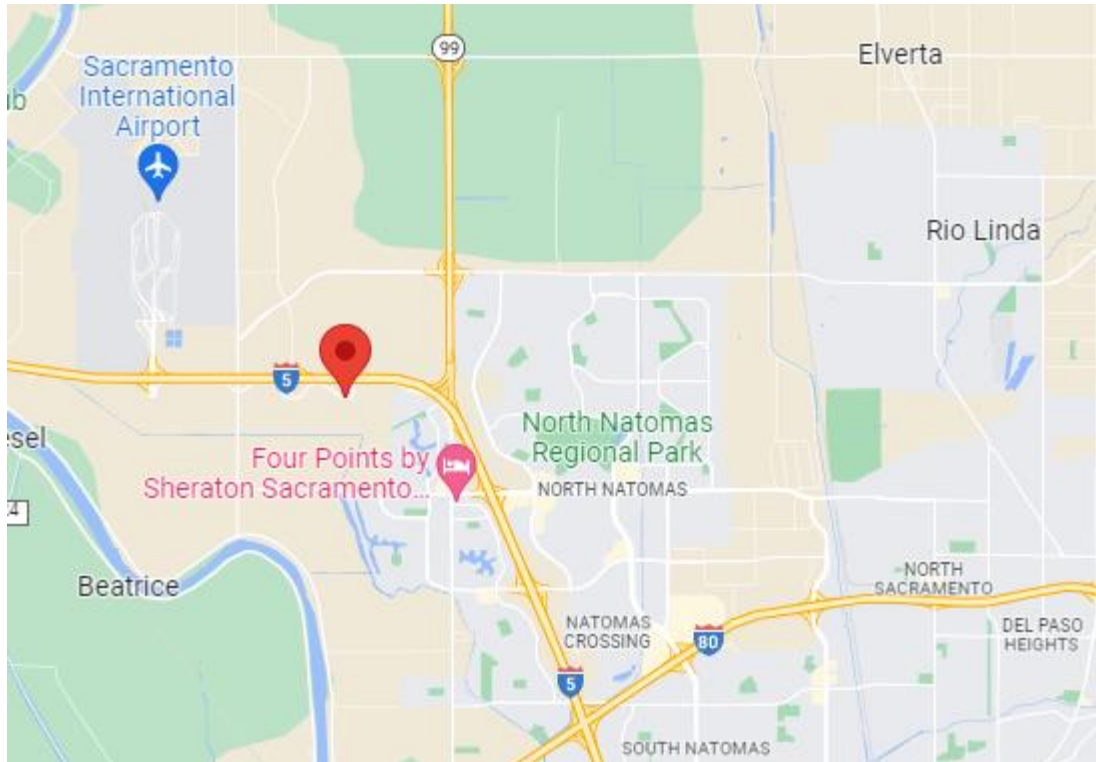
Ph: (916) 799-8198

WARNING:

Geo-Ex Subsubsurface Exploration uses a commercial CPT interpretation and plotting software CPeT-IT (<https://geologismiki.gr/products/cpet-it/>). The software takes the CPT data and performs basic interpretation in terms of soil behavior type (SBT) and various geotechnical parameters using current published empirical correlations based on the comprehensive review by Lunne, Robertson and Powell (1997) and updated by Robertson and Cabal (2015). The interpretation is presented in tabular format. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Geo-Ex Subsubsurface does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

2. Project Location

Geo-Ex Subsurface Exploration has performed cone penetration tests for the South Airport Parkway in Natomas, CA.





3. General Project Information

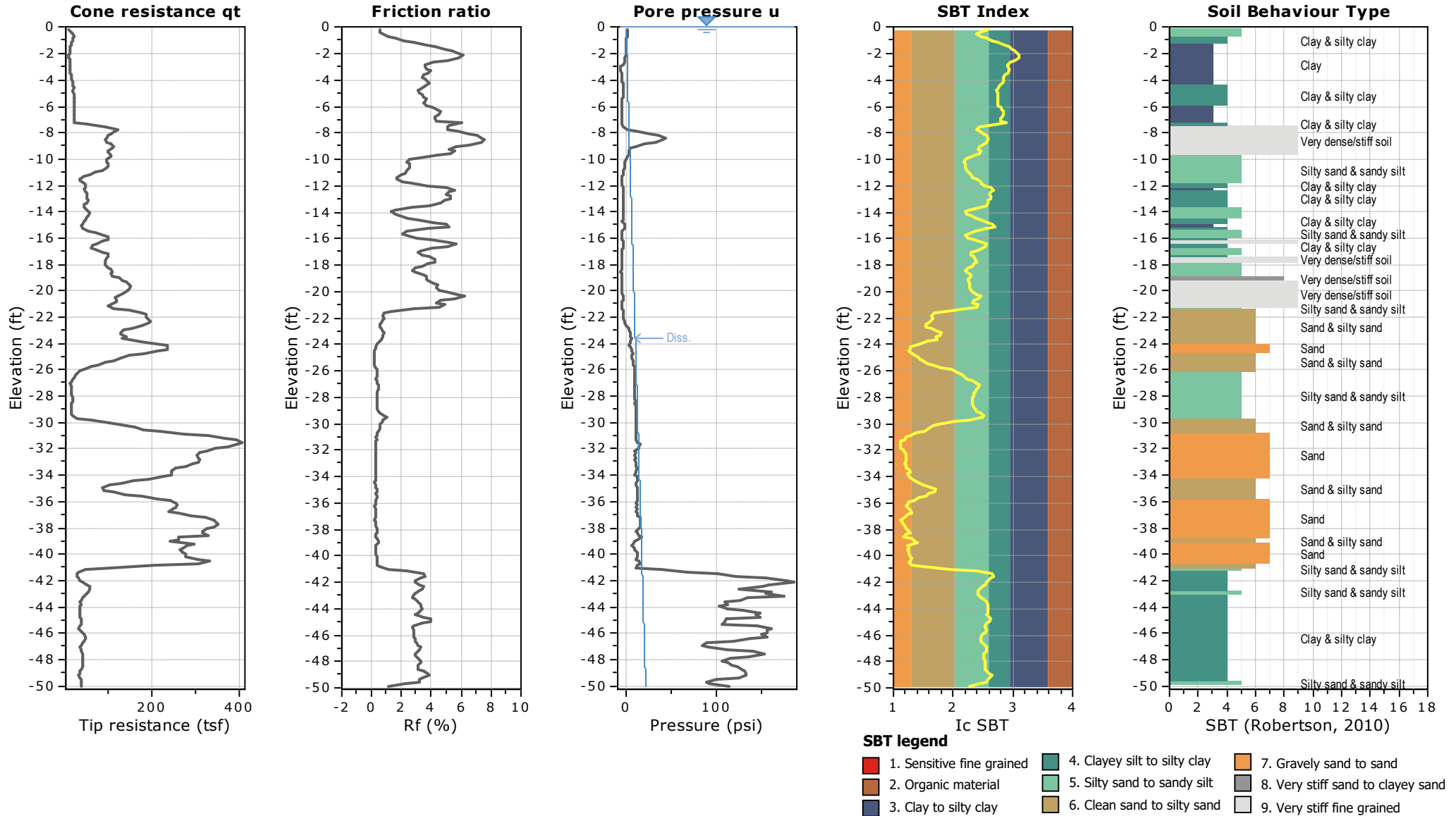
Operator name (or initials)	Nick Maher
Project designation	Natomas, CA
Ground surface elevation	0 ft
Ground water surface elevation	this was not confirmed during the testing; therefore all plots have been generated assuming an elevation of 0 ft;
Sounding locations	SCPT-1 and CPT-2
Sounding date	March 23, 2022,
Equipment Used	
Cone manufacturer	Hogentogler
Cone type used	10 cm ² piezocone
Cone serial number	DDG1501
Type of thrust machine	20 kN pusher
Method used to provide reaction force	vehicle dead weight
Location and type of friction reduction system	none
Calibration data	see section 5
Any special difficulties or other observations concerning performance of the equipment	none
Information on other sensing devices used during the sounding	N/A
Any observations concerning the quality of the recorded data	N/A



4. CPT Plots



Project: South Airport Parkway
Location: Natomas, CA



Project: South Airport Parkway
Location: Natomas, CA

Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

The porepressures are plotted as a function of square root of (t). The graphical technique suggested by Robertson and Campanella (1989), yields a value for t_{50} , which corresponds to the time for 50% consolidation.

The value of the coefficient of consolidation in the radial or horizontal direction c_h was then calculated by Houlsby and Teh's (1988) theory using the following equation:

$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

- T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
- r: piezocone radius
- I_r : stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
- t_{50} : time corresponding to 50% consolidation

Permeability estimates based on dissipation test

The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

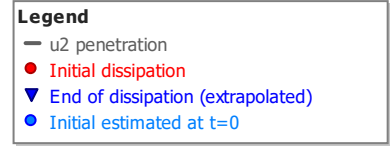
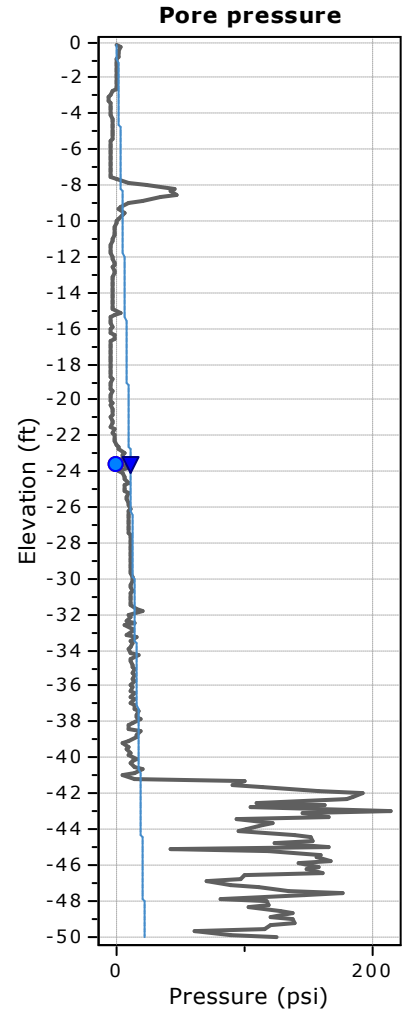
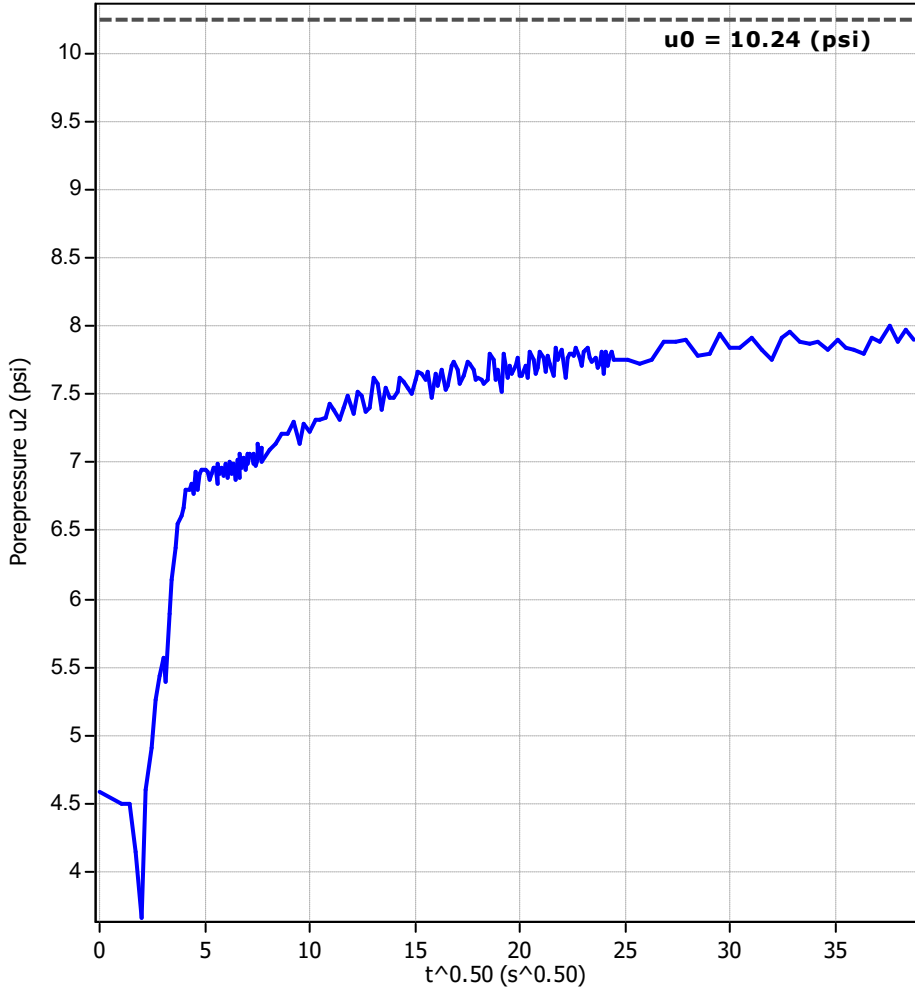
$$k_h = c_h \times \gamma_w / M$$

where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

Tabular results

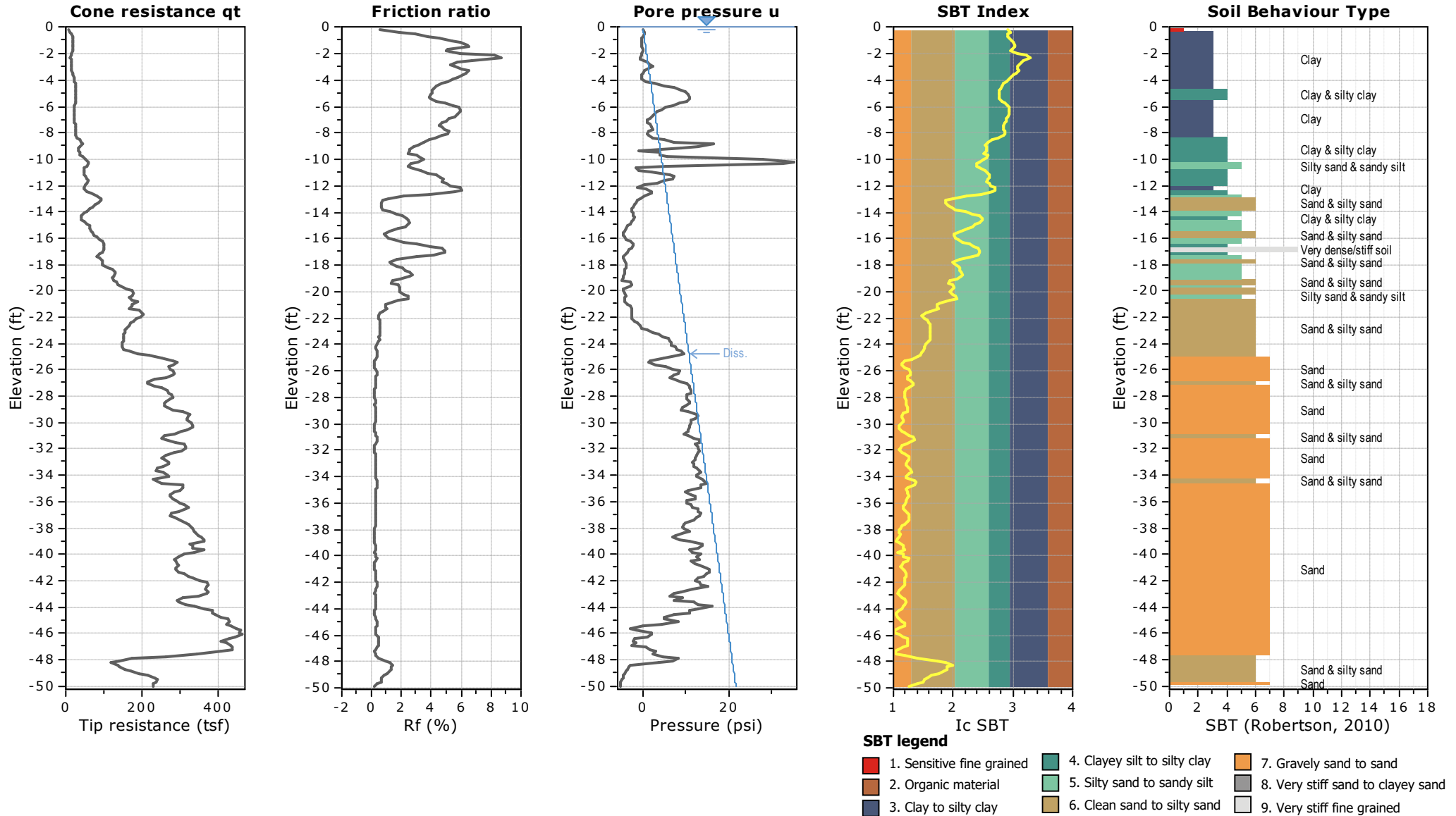
CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/ S_u	c_h (ft ² /s)	c_h (ft ² /year)	M (tsf)	k_h (ft/s)
1-CPT-1	23.62	0.0	0	0.00E+000	100.00	0.00E+000	0	1041.55	-1.00E+004

Piezocene Dissipation Test: 1-CPT-1
Depth: 23.62 (ft)





Project: South Airport Parkway
Location: Natomas, CA



Project: South Airport Parkway
Location: Natomas, CA

Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

The porepressures are plotted as a function of square root of (t). The graphical technique suggested by Robertson and Campanella (1989), yields a value for t_{50} , which corresponds to the time for 50% consolidation.

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$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

- T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
- r: piezocone radius
- I_r : stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
- t_{50} : time corresponding to 50% consolidation

Permeability estimates based on dissipation test

The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

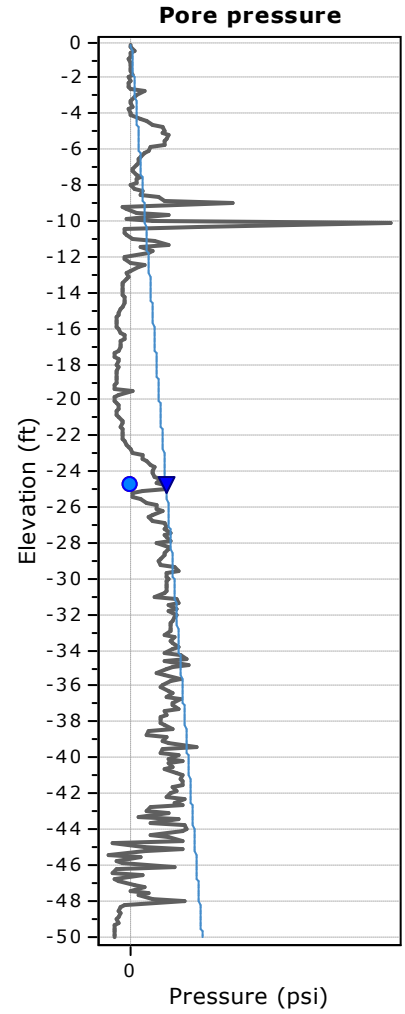
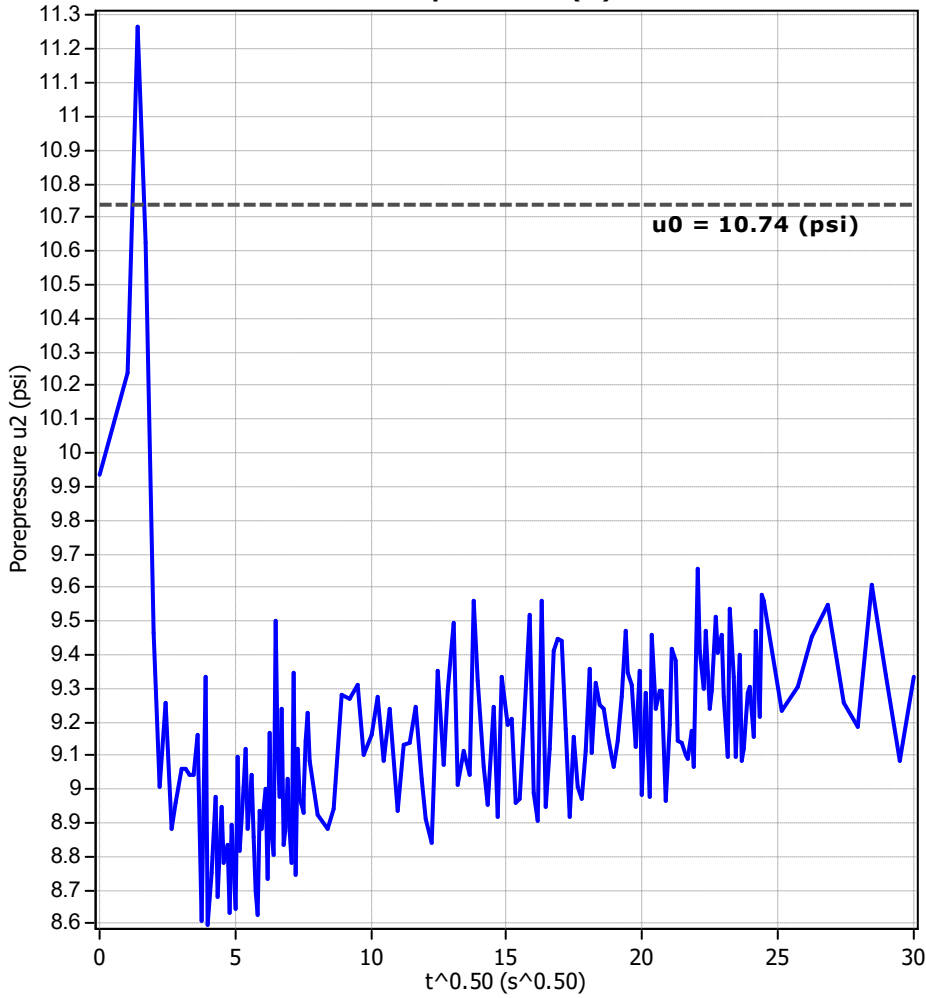
$$k_h = c_h \times \gamma_w / M$$

where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

Tabular results

CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/ S_u	c_h (ft ² /s)	c_h (ft ² /year)	M (tsf)	k_h (ft/s)
1-CPT-2	24.77	0.0	0	0.00E+000	100.00	0.00E+000	0	984.67	-1.00E+004

Piezocene Dissipation Test: 1-CPT-2
Depth: 24.77 (ft)



Legend

- u2 penetration
- Initial dissipation
- ▼ End of dissipation (extrapolated)
- Initial estimated at t=0



5. Calibration Certificates



250 Beanville Road
Randolph, Vt. 05060
802-728-4588
800-639-6315

Digital Cone Penetrometer Calibration

Cone Serial Number : DDG1501

Customer : GEO_EX SUBSURFACE EX

Reference Load Cell : Model : 1221ANE-50K-B

S/N : 322089A

cal. due : 2/9/2022

Reference Press. Gauge :

Model : DXD

S/N : 4256

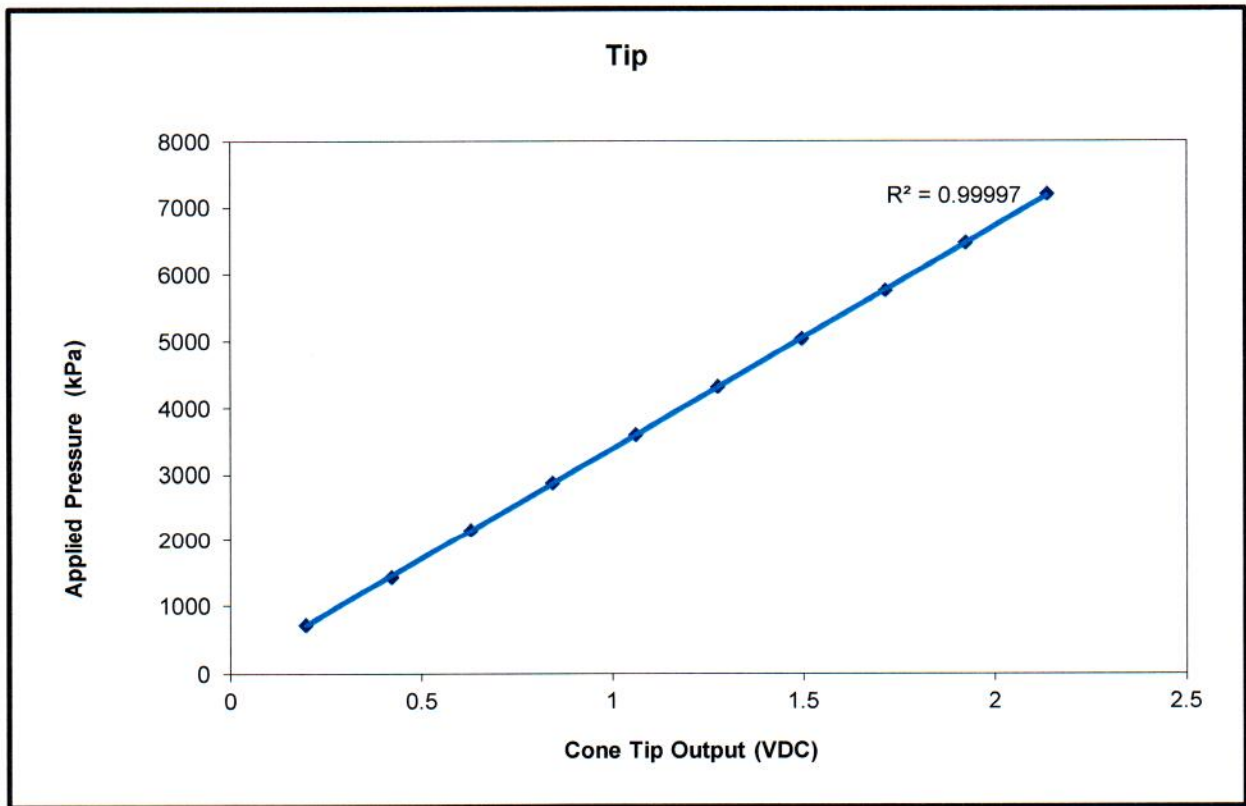
cal. due : 11/1/2022

Sensor : **TIP**

Full range (V) : 2.1514

Baseline (V) : -0.01397

Full Scale Pressure : 100000 KPA



Calibration Date : 12/21/2021

Calibrated By:  (signed) L Smith (printed)

Approved by:  (signed) M Wimmer (printed)



250 Beanville Road
 Randolph, Vt. 05060
 802-728-4588
 800-639-6315

Digital Cone Penetrometer Calibration

Cone Serial Number : DDG1501

Customer : GEO_EX SUBSURFACE EX

Reference Load Cell : Model : 1221ANE-50K-B

S/N : 322089A

cal. due : 2/9/2022

Reference Press. Gauge :

Model : DXD

S/N : 4256

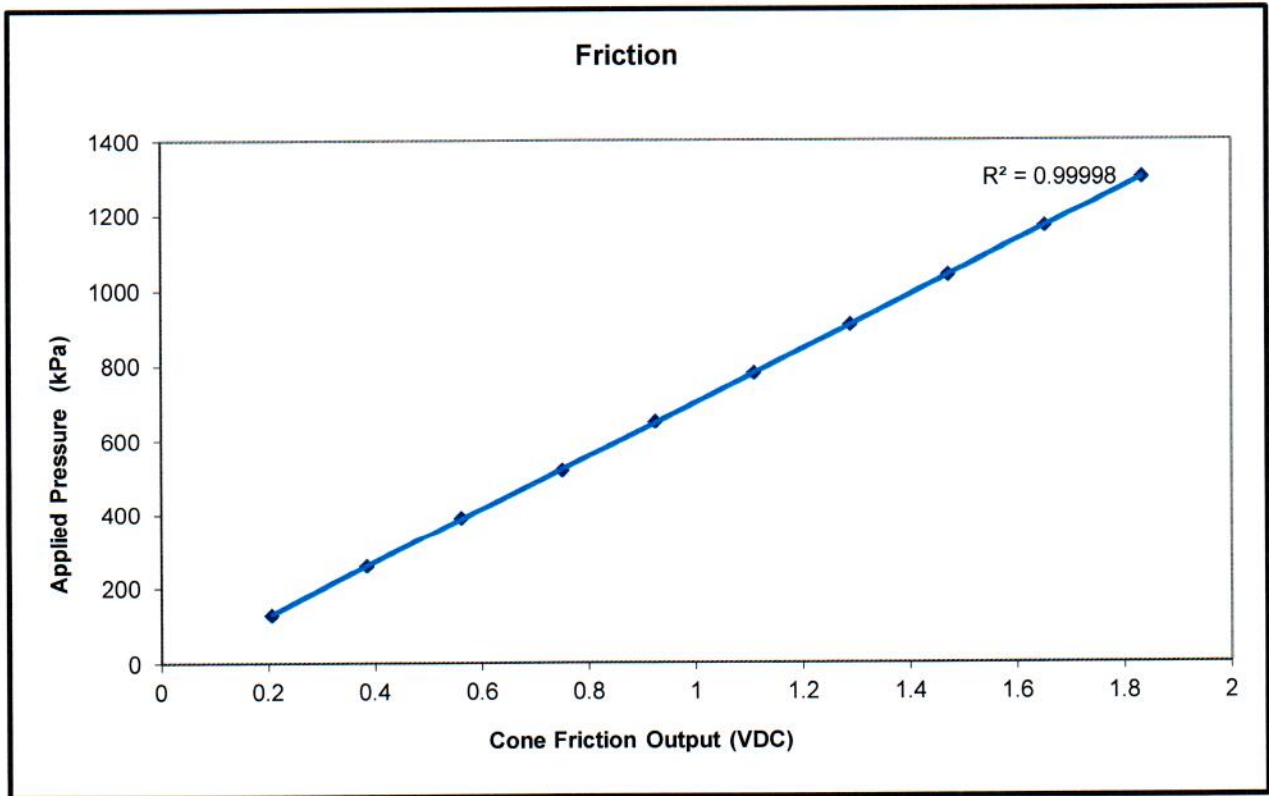
cal. due : 11/1/2022

Sensor : **FRICION**

Full range (V) : 1.8116

Baseline (V) : 0.02115

Full Scale Pressure : 1300 KPA



Calibration Date : 12/21/2021

Calibrated By:  (signed) L Smith (printed)

Approved by:  (signed) M Wimmer (printed)



250 Beanville Road
Randolph, Vt. 05060
802-728-4588
800-639-6315

Digital Cone Penetrometer Calibration

Cone Serial Number : DDG1501

Customer : GEO_EX SUBSURFACE EX

Reference Load Cell : Model : 1221ANE-50K-B

S/N : 322089A

cal. due : 2/9/2022

Reference Press. Gauge :

Model : DXD

S/N : 4256

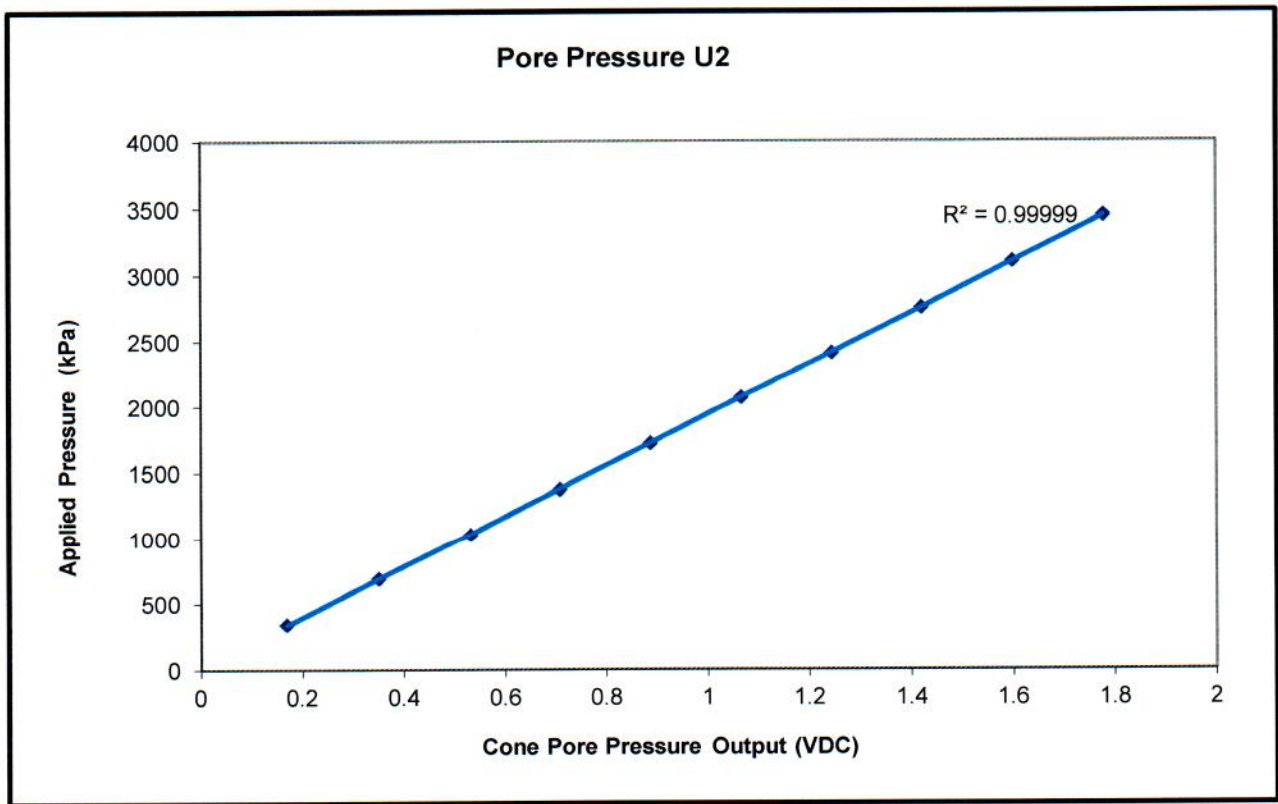
cal. due : 11/1/2022

Sensor : **PRESSURE U2**

Full range (V) : 1.7907

Baseline (V) : -0.01285

Full Scale Pressure : 3447.5 KPA



Calibration Date : 12/21/2021

Calibrated By:  (signed) L Smith (printed)

Approved by:  (signed) M Wimmer (printed)



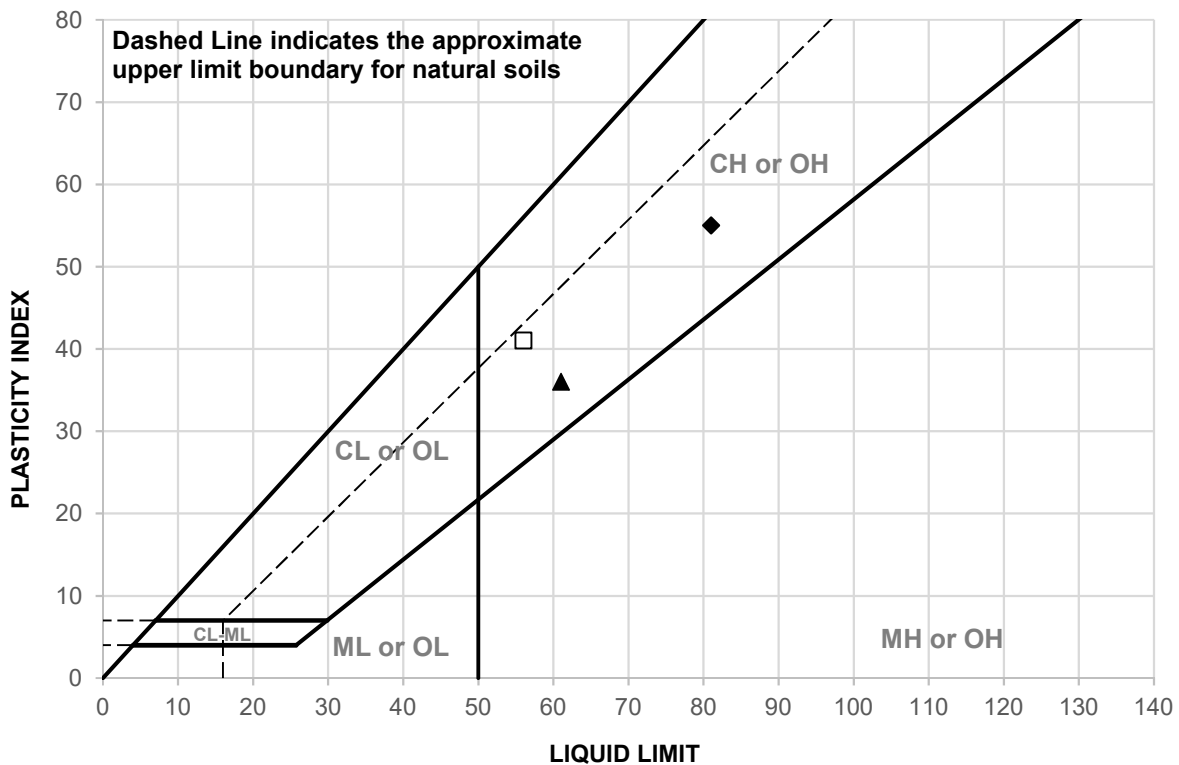
APPENDIX C

LABORATORY TEST DATA

**Liquid and Plastic Limits Test Report
Unconfined Compression Test Report
Expansive Index Test Report
Particle Size Distribution Report
Analytical Results of Soil Corrosion**

LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318



	SAMPLE ID	DEPTH (ft)	MATERIAL DESCRIPTION	LL	PL	PI
▲	1-B1@1.5	1.5	See exploration logs	61	25	36
◆	1-B3@2	2	See exploration logs	81	26	55
□	1-B5@4	4	See exploration logs	56	15	41

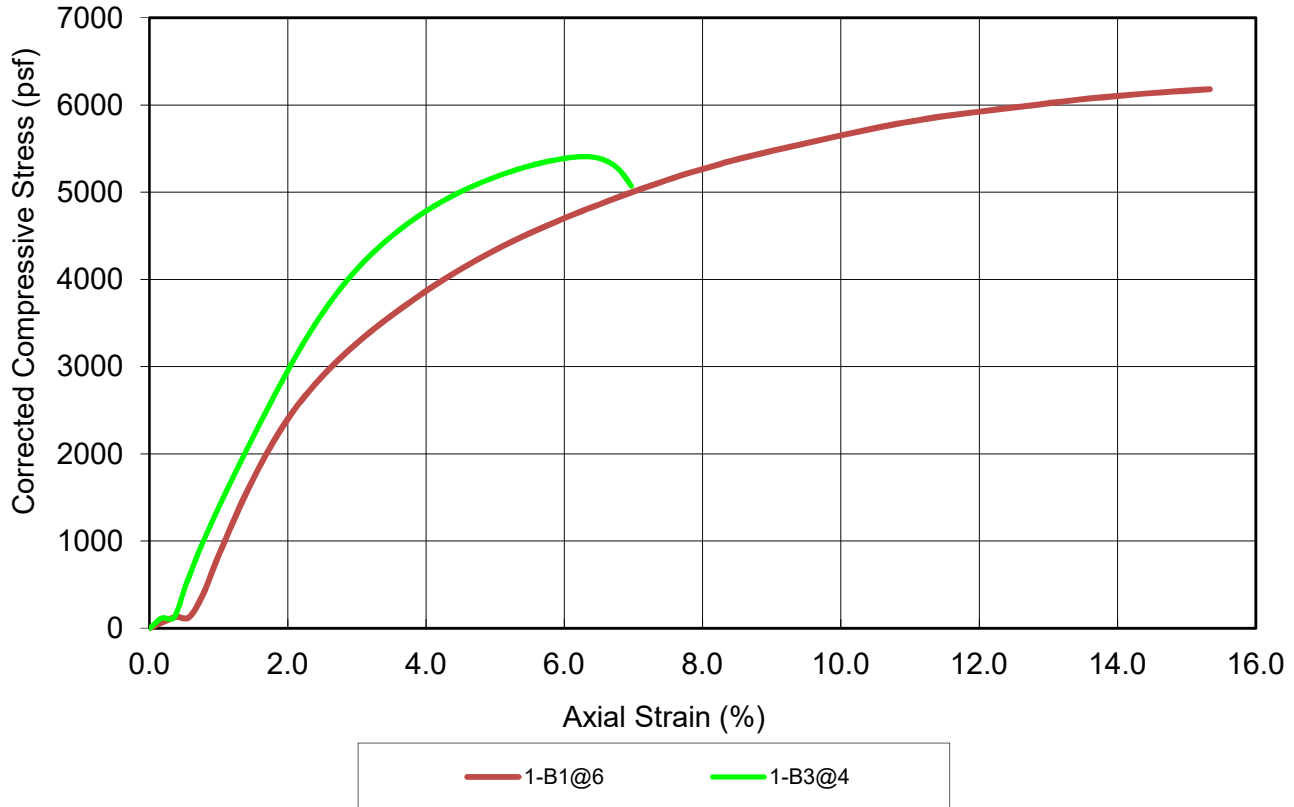
	SAMPLE ID	TEST METHOD	REMARKS
▲	1-B1@1.5	PI: ASTM D4318, Wet Method	
◆	1-B3@2	PI: ASTM D4318, Wet Method	
□	1-B5@4	PI: ASTM D4318, Wet Method	



CLIENT: Raney Planning & Management, Inc.
PROJECT NAME: Airport South Industrial Park
PROJECT NO: 19894.000.001 PH001
PROJECT LOCATION: Sacramento, CA
REPORT DATE: 4/6/2022
TESTED BY: R. Montalvo
REVIEWED BY: M. Gilbert

UNCONFINED COMPRESSION TEST REPORT (ASTM D2166)

Compressive Stress vs. Axial Strain



BEFORE TEST	SPECIMEN 1-B1@6	SPECIMEN 1-B3@4
Test Moisture Content (%)	22.72	29.61
Dry Density (pcf)	104.9	94.0
Saturation (%)	99.9	99.8
Void Ratio	0.62	0.81
Diameter (in)	2.393	2.363
Height (in)	5.220	5.597
Height-To-Diameter Ratio	2.18	2.37
TEST DATA		
Unconfined Compressive Strength (psf)	6181	5407
Undrained Shear Strength (psf)	3090.3	2703.6
Strain Rate (in/min)	0.050	0.050
Specific Gravity (ASSUMED)	2.720	2.720
Strain at Failure(%)	15.33	6.25
Test Remarks		
SPECIMEN	DESCRIPTION	
1-B1@6	See exploration logs.	
1-B3@4	See exploration logs.	

PROJECT NAME: Airport South Industrial Park

Report Date: 4/4/22

PROJECT NO: 19894.000.001 PH001

Tested By: R. Montalvo

CLIENT: Raney Planning & Management, Inc.

Reviewed By: M. Gilbert

LOCATION: Sacramento, CA



EXPANSION INDEX TEST REPORT

ASTM D4829

SAMPLE ID	SOIL DESCRIPTION	SAMPLE LOCATION	INITIAL DRY DENSITY (pcf)	INITIAL MOISTURE CONTENT (%)	FINAL MOISTURE CONTENT (%)	EXPANSION INDEX
1-B2@1.5	See exploration logs	1-B2 at 1.5 feet	87.0	17.7	39.9	83

TABLE 1: CLASSIFICATION OF EXPANSIVE SOIL
ASTM D4829

EXPANSION INDEX	POTENTIAL EXPANSION
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very High



CLIENT: Raney Planning & Management Inc.

PROJECT NAME: Airport South Industrial Parks

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

REPORT DATE: 4/6/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

EXPANSION INDEX TEST REPORT

ASTM D4829

SAMPLE ID	SOIL DESCRIPTION	SAMPLE LOCATION	INITIAL DRY DENSITY (pcf)	INITIAL MOISTURE CONTENT (%)	FINAL MOISTURE CONTENT (%)	EXPANSION INDEX
1-B4@1.5	See exploration logs	1-B4 at 1.5 feet	78.8	20.4	50.0	110

TABLE 1: CLASSIFICATION OF EXPANSIVE SOIL
ASTM D4829

EXPANSION INDEX	POTENTIAL EXPANSION
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very High



CLIENT: Raney Planning & Management Inc.

PROJECT NAME: Airport South Industrial Parks

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

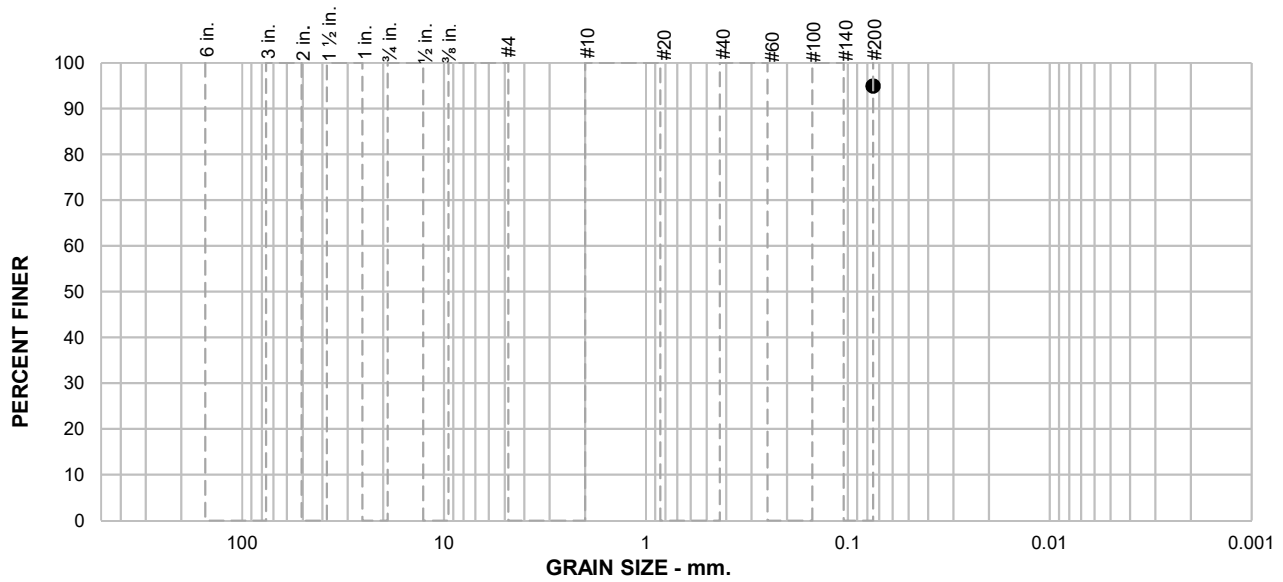
REPORT DATE: 4/6/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B1@1.5
DEPTH (ft): 1.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							94.9
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	94.9			See exploration logs			
				ATTERBERG LIMITS			
				PL = 25	LL = 61	PI = 36	
				COEFFICIENTS			
				D ₉₀ =	D ₈₅ =	D ₆₀ =	
				D ₅₀ =	D ₃₀ =	D ₁₅ =	
				D ₁₀ =	C _u =	C _c =	
				CLASSIFICATION			
				USCS = CH			
				REMARKS			
				PI: ASTM D4318, Wet Method USCS: ASTM D2487 Soak time = 180 min Dry sample weight = 186.2 g Largest particle size < No. 4 Sieve			

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

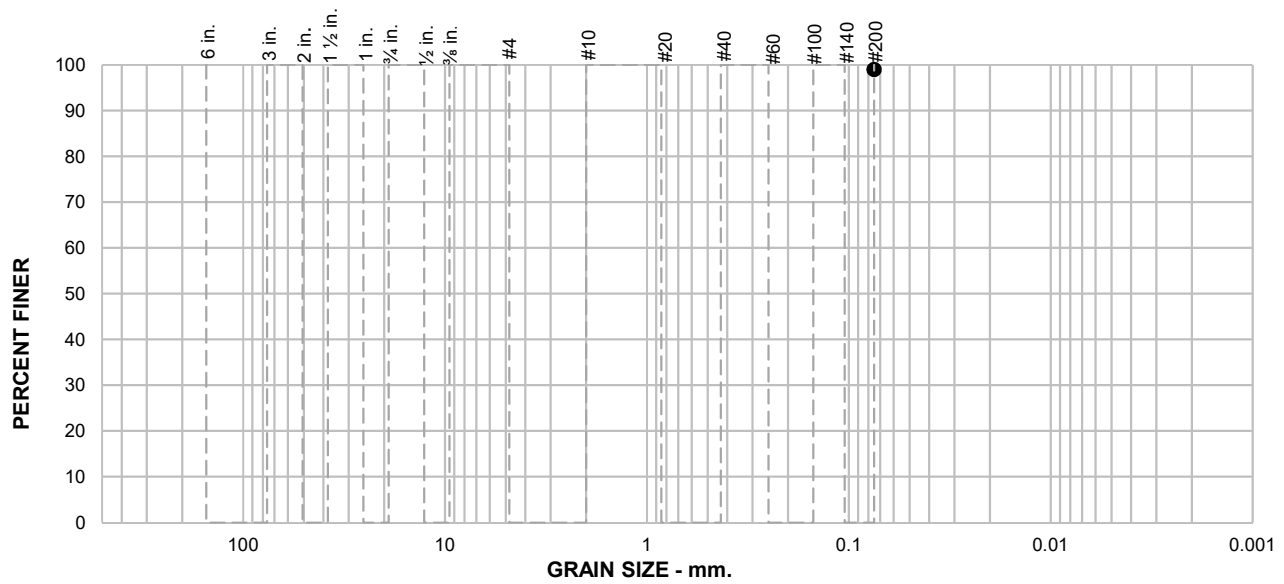
REPORT DATE: 4/6/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B2@1.5

DEPTH (ft): 1.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							98.9
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	98.9			See exploration logs			
ATTERBERG LIMITS							
PL =		LL =		PI =			
COEFFICIENTS							
D ₉₀ =		D ₈₅ =		D ₆₀ =			
D ₅₀ =		D ₃₀ =		D ₁₅ =			
D ₁₀ =		C _u =		C _c =			
CLASSIFICATION							
USCS =							
REMARKS							
Soak time = 180 min Dry sample weight = 197.6 g Largest particle size < No. 4 Sieve							

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

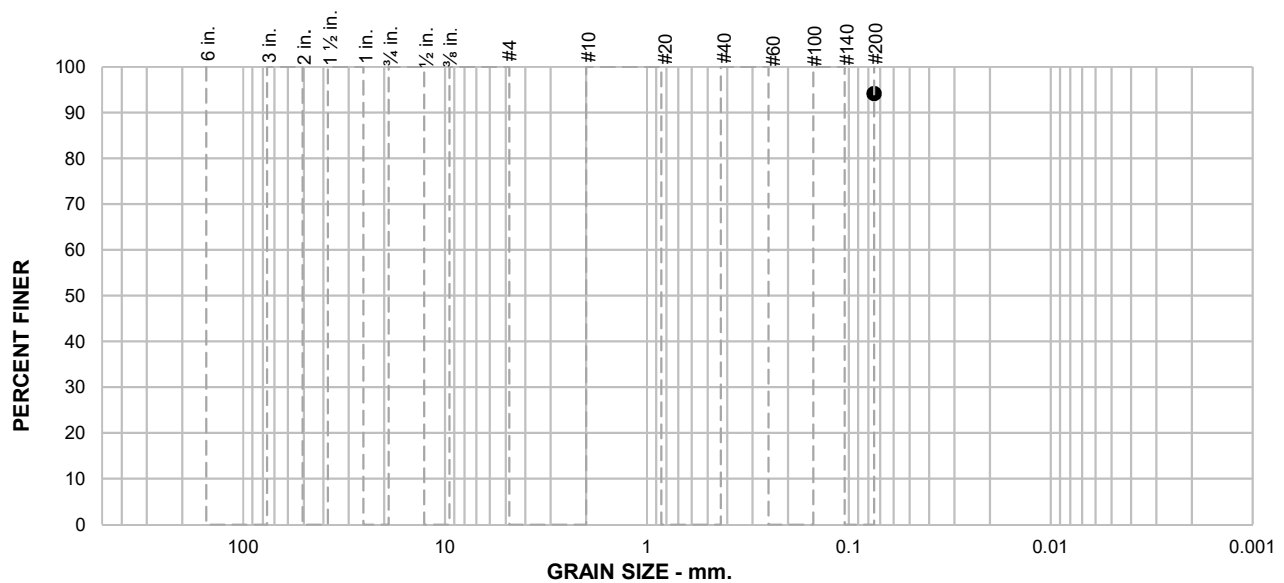
REPORT DATE: 4/4/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B3@2

DEPTH (ft): 2

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							94.1
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	94.1			See exploration logs			
				ATTERBERG LIMITS			
				PL = 26	LL = 81	PI = 55	
				COEFFICIENTS			
				D ₉₀ =	D ₈₅ =	D ₆₀ =	
				D ₅₀ =	D ₃₀ =	D ₁₅ =	
				D ₁₀ =	C _u =	C _c =	
				CLASSIFICATION			
				USCS = CH			
				REMARKS			
				PI: ASTM D4318, Wet Method USCS: ASTM D2487 Soak time = 180 min Dry sample weight = 606 g Largest particle size < No. 4 Sieve			

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

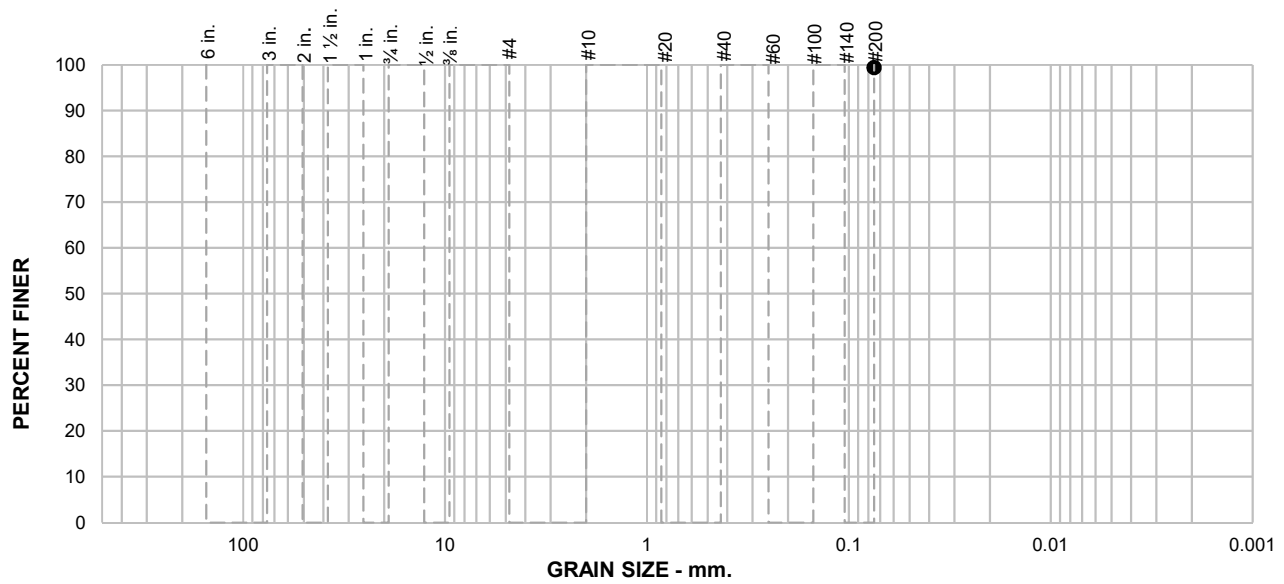
REPORT DATE: 4/6/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B4@1.5

DEPTH (ft): 1.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							99.4
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	99.4			See exploration logs			
ATTERBERG LIMITS							
PL =		LL =		PI =			
COEFFICIENTS							
D ₉₀ =		D ₈₅ =		D ₆₀ =			
D ₅₀ =		D ₃₀ =		D ₁₅ =			
D ₁₀ =		C _u =		C _c =			
CLASSIFICATION							
USCS =							
REMARKS							
Soak time = 180 min Dry sample weight = 654.1 g Largest particle size < No. 4 Sieve							

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

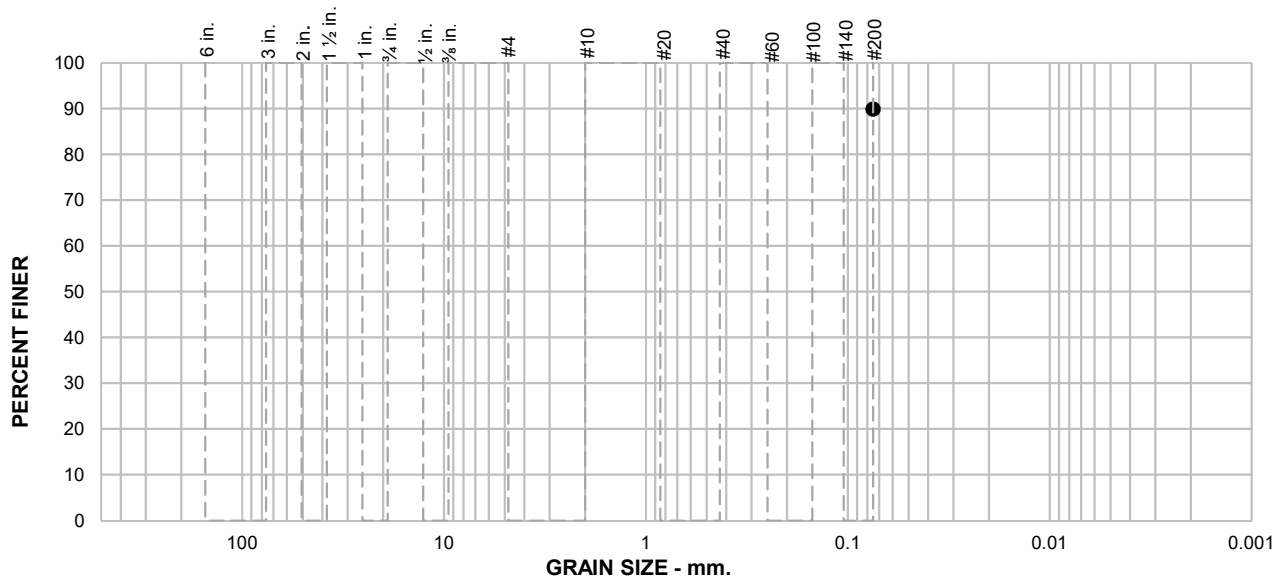
REPORT DATE: 4/4/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B5@4

DEPTH (ft): 4

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							90
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	90			See exploration logs			
				ATTERBERG LIMITS			
				PL = 15	LL = 56	PI = 41	
				COEFFICIENTS			
				D ₉₀ = #DIV/0!	D ₈₅ =	D ₆₀ =	
				D ₅₀ =	D ₃₀ =	D ₁₅ =	
				D ₁₀ =	C _u =	C _c =	
				CLASSIFICATION			
				USCS = CH			
				REMARKS			
				PI: ASTM D4318, Wet Method USCS: ASTM D2487 Soak time = 180 min Dry sample weight = 410.3 g Largest particle size < No. 4 Sieve			

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

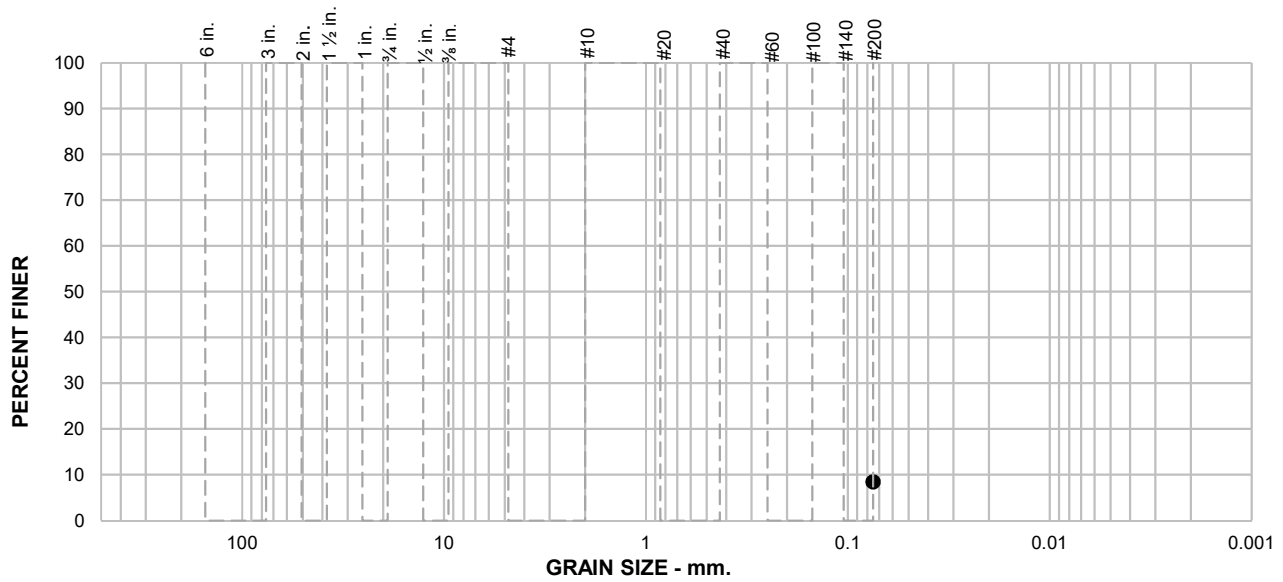
REPORT DATE: 4/6/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B5@16.5
DEPTH (ft): 16.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							8
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	8			See exploration logs			
				ATTERBERG LIMITS			
				PL =	LL =	PI =	
				COEFFICIENTS			
				D ₉₀ =	D ₈₅ =	D ₆₀ =	
				D ₅₀ =	D ₃₀ =	D ₁₅ =	
				D ₁₀ =	C _u =	C _c =	
				CLASSIFICATION			
				USCS =			
				REMARKS			
				Soak time = 180 min Dry sample weight = 523.4 g Largest particle size ≥ No. 4 Sieve			

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

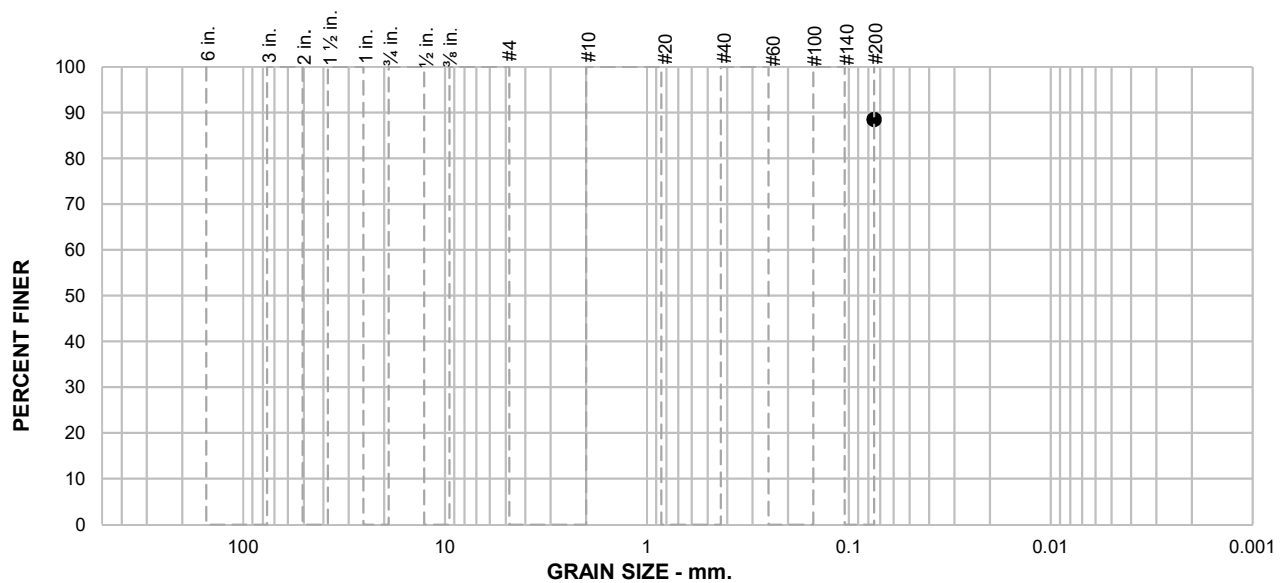
REPORT DATE: 4/4/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B6@1.5

DEPTH (ft): 1.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							88.5
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	88.5			See exploration logs			
ATTERBERG LIMITS							
PL =		LL =		PI =			
COEFFICIENTS							
D ₉₀ =		D ₈₅ =		D ₆₀ =			
D ₅₀ =		D ₃₀ =		D ₁₅ =			
D ₁₀ =		C _u =		C _c =			
CLASSIFICATION							
USCS =							
REMARKS							
Soak time = 180 min Dry sample weight = 585.6 g Largest particle size < No. 4 Sieve							

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

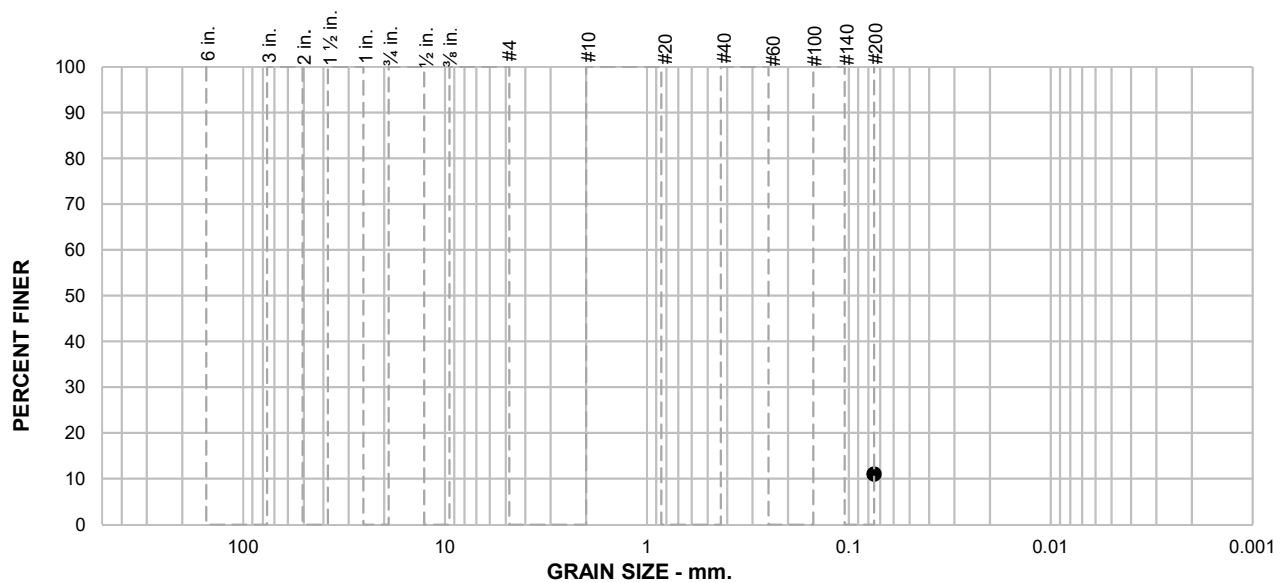
REPORT DATE: 4/4/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 1-B6@15.5

DEPTH (ft): 15.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
							11
SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)	SOIL DESCRIPTION			
#200	11			See exploration logs			
ATTERBERG LIMITS							
PL =		LL =		PI =			
COEFFICIENTS							
D ₉₀ =		D ₈₅ =		D ₆₀ =			
D ₅₀ =		D ₃₀ =		D ₁₅ =			
D ₁₀ =		C _u =		C _c =			
CLASSIFICATION							
USCS =							
REMARKS							
Soak time = 180 min Dry sample weight = 578.2 g Largest particle size ≥ No. 4 Sieve							

* (no specification provided)

CLIENT: Raney Planning & Management, Inc.



PROJECT NAME: Airport South Industrial Park

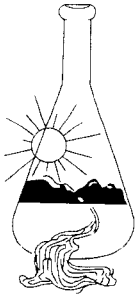
PROJECT NO: 19894.000.001 PH001

PROJECT LOCATION: Sacramento, CA

REPORT DATE: 4/4/2022

TESTED BY: R. Montalvo

REVIEWED BY: M. Gilbert



Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 04/06/2022
Date Submitted 03/31/2022

To: Abram Magel
Engeo, Inc.
2213 Plaza Dr.
Rocklin, CA 95765

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 19894.000.001 Site ID : 1-B1 @ 3.5.
Thank you for your business.

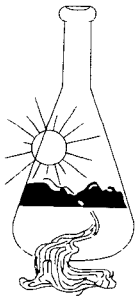
* For future reference to this analysis please use SUN # 87048-181118.

EVALUATION FOR SOIL CORROSION

Soil pH	7.76		
Minimum Resistivity	1.26	ohm-cm (x1000)	
Chloride	15.2 ppm	00.00152	%
Sulfate	84.3 ppm	00.00843	%

METHODS

pH and Min.Resistivity CA DOT Test #643
Sulfate CA DOT Test #417, Chloride CA DOT Test #422m



Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 04/06/2022
Date Submitted 03/31/2022

To: Abram Magel
Engeo, Inc.
2213 Plaza Dr.
Rocklin, CA 95765

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 19894.000.001 Site ID : 1-B6 @ 3.5.
Thank you for your business.

* For future reference to this analysis please use SUN # 87048-181119.

EVALUATION FOR SOIL CORROSION

Soil pH	7.51		
Minimum Resistivity	1.02	ohm-cm (x1000)	
Chloride	10.5 ppm	00.00105	%
Sulfate	27.0 ppm	00.00270	%

METHODS

pH and Min.Resistivity CA DOT Test #643
Sulfate CA DOT Test #417, Chloride CA DOT Test #422m



APPENDIX H



ENVIRONMENTAL INVESTIGATION SERVICES, INC.

PHASE I

ENVIRONMENTAL SITE ASSESSMENT

3880, 3990, 4690 AND 4696 BAYOU WAY,
SACRAMENTO COUNTY, CALIFORNIA

EIS, Inc. PROJECT #2217-1

September 14, 2022

PREPARED FOR:

Mr. Andrew Burrer
NorthPoint Development, LLC
4805 Montgomery Road, Suite 310
Cincinnati, OH 45212

PREPARED BY:

ENVIRONMENTAL INVESTIGATION SERVICES, INC.
PH: (408) 656-1032

Table of Contents

Executive Summary	1
1.0 Introduction	2
1.1 Purpose	2
1.2 Detailed Scope of Services	2
1.3 Limitations	3
1.4 Data Gaps	4
1.5 User Reliance	4
2.0 Site Reconnaissance	4
2.1 Current Use of Subject Property	5
2.1.1 <i>Hazardous Substances and Petroleum Products</i>	5
2.1.2 <i>Underground Storage Tanks (USTs)</i>	5
2.1.3 <i>Aboveground Storage tanks (ASTs)</i>	5
2.1.4 <i>Liquid Waste</i>	6
2.1.5 <i>Solid Waste</i>	6
2.1.6 <i>Polychlorinated Biphenyls (PCBs)</i>	6
2.1.7 <i>Wells</i>	6
2.2 Current Use of Adjoining Properties	7
3.0 User Provided Information	7
3.1 Title Records	7
3.2 Environmental Liens or Activity & Use Limitations.....	7
3.3 Specialized Knowledge	7
3.4 Commonly Known or Reasonably Ascertainable Information.....	8
3.5 Valuation Reductions for Environmental Issues	8
3.6 Reason for Performing Phase I	8
4.0 Interviews	8
4.1 Subject Property Owner/Key Site Manager.....	8
4.2 Tenant-Space Key Site Managers	8
4.3 Previous Owners, Operators, and Occupants.....	8
4.4 Nearby Property Owners and Occupants.....	8
4.5 Government Officials	8
5.0 Records Review.....	8
5.1 Physical Setting.....	9
5.1.1 <i>Physiography</i>	9
5.1.2 <i>Geology</i>	9
5.1.3 <i>Hydrogeology</i>	9
5.2 Sanborn Fire Insurance Maps.....	9
5.3 Aerial Photographs	9
5.4 Topographic Maps	11
5.5 City Directories	11
5.6 Regulatory Agencies.....	12
5.6.1 <i>Tax Assessor</i>	12
5.6.2 <i>Agricultural Commissioner</i>	12
5.6.3 <i>Building Department</i>	12
5.6.4 <i>Sacramento County Fire Department</i> ..	13
5.6.5 <i>Department of Environmental Health</i> ...	13
5.6.6 <i>State Water Resources Control Board</i>	13
5.6.7 <i>Department of Toxic Substances Control</i>	13

5.7	Previous Reports.....	13
5.8	Database Review.....	14
6.0	Non-ASTM Considerations.....	15
6.1	Asbestos.....	15
6.2	Lead-Based Paint.....	16
6.3	Mold.....	16
6.4	Radon.....	16
6.5	Wetlands.....	16
7.0	Findings and Opinions.....	17
8.0	Conclusion & Recommendations.....	18
9.0	Signature(s) of Environmental Professional(s).....	19

Figures

- 1 Site Location Map
- 2 Site Detail Map

Photographs

Appendices

- A Qualifications
- B Sources Checked
- C User Questionnaire
- D Sanborn Fire Insurance Maps
- E Aerial Photographs
- F City Directory
- G Database Report

EXECUTIVE SUMMARY

Environmental Investigation Services Inc. (EIS) has completed a Phase I Environmental Site Assessment (ESA) for the properties at 3880, 3990, 4690 and 4696 Bayou Way with Assessor Parcel Numbers (APNs) 225-0020-022, 225-0020-023, 225-0020-024, 225-0020-034, 225-0020-035, 225-0020-033, 225-0020-030, 225-0020-026, 225-0020-027, 225-0020-021, 225-0020-016, 225-0020-032, 225-0020-017, 225-0020-010, 225-0030-048, 225-0030-024, 225-0030-023, 225-0030-045, Sacramento County, California (subject property).

This ESA was prepared in accordance with EIS's Proposal No. 2217-1 and ASTM Designation: E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I ESA Process*. The work is limited to the services agreed to by NorthPoint Development, LLC. The objective of this assessment was to evaluate the subject property for potential recognized environmental concerns, as outlined in the above-referenced standard. EIS's professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in the location of the subject property at the time of our investigation. This warranty is in lieu of all other warranties, expressed or implied. Exceptions to E 1527-13 and limitations encountered during this ESA are identified in the report.

The approximately 472-acre subject property is currently vacant, fallow agricultural land. The property is bordered by Bayou Way and Interstate 5 to the north, a dirt road to the east, a dirt road and the West Drainage Canal to the south, and an unnamed drainage canal and Powerline Road to the west. Unnamed drainage canals run roughly north-south in both the western and eastern portions of the property. Numerous unimproved dirt roads provide access to the interior of the property which is subdivided into multiple agricultural plots. A cell tower with a diesel generator and a front-loading tractor are located in northwestern part of property, along Bayou Road. Stockpiled soils were located to the west of the cell tower area. Portions of the subject property lie between Bayou Way and Interstate 5. The subject property is surrounded by vacant fields to the north (across I-5) and west, active fields to the south, and a multi-lot residential and commercial development to the east.

EIS identified obvious subject property uses from the present back to 1937, at which time the subject property was in agricultural use as hay fields and possibly intermittent rice fields continued until at least 2020.

Surrounding properties appeared predominantly as agricultural fields with rice fields or hay fields by 1937. Similar uses continue through the present, with the exception of a single family residence to the south and multi-unit residential and commercial development constructed around 2006 to the east.

EIS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13. This assessment has revealed no evidence of recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), or controlled recognized environmental conditions (CRECs) in connection with the subject property.

EIS recommends no further investigation at this time.

Prior to any commercial redevelopment of the property, it would be prudent to sample shallow soils for residual pesticides and the unknown fill soil stockpile.

1.0 INTRODUCTION

Environmental Investigation Services Inc. (EIS) has completed a Phase I Environmental Site Assessment of the properties at 3880, 3990, 4690 and 4696 Bayou Way with Assessor Parcel Numbers (APNs) 225-0020-022, 225-0020-023, 225-0020-024, 225-0020-034, 225-0020-035, 225-0020-033, 225-0020-030, 225-0020-026, 225-0020-027, 225-0020-021, 225-0020-016, 225-0020-032, 225-0020-017, 225-0020-010, 225-0030-048, 225-0030-024, 225-0030-023, 225-0030-045, Sacramento County, California (subject property). Peter Littman, Environmental Professional, prepared this report according to ASTM Standard E 1527-13. Any deviations from the ASTM Standard are cited in the report. Mr. Littman's qualifications as an Environmental Professional are presented in Appendix A. EIS understands that this ESA is being conducted as part of a real estate transaction.

1.1 PURPOSE

The purpose of this Phase I Environmental Site Assessment was to identify, to the extent feasible pursuant to the processes prescribed herein, recognized environmental conditions in connection with the subject property. The term recognized environmental conditions refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.

1.2 DETAILED SCOPE OF SERVICES

This Phase I Environmental Assessment (ESA) was prepared in accordance with EIS's Proposal No. 2217-1 with respect to the properties at 3880, 3990, 4690 and 4696 Bayou Way with Assessor Parcel Numbers (APNs) 225-0020-022, 225-

0020-023, 225-0020-024, 225-0020-034, 225-0020-035, 225-0020-033, 225-0020-030, 225-0020-026, 225-0020-027, 225-0020-021, 225-0020-016, 225-0020-032, 225-0020-017, 225-0020-010, 225-0030-048, 225-0030-024, 225-0030-023, 225-0030-045, Sacramento County, California (subject property). This investigation was conducted in general accordance with ASTM E 1527-13. The work conducted by EIS is limited to the services agreed to by NorthPoint Development, LLC and no other services beyond those explicitly stated should be inferred or are implied. The objective of this assessment was to evaluate the subject property for potential recognized environmental concerns, as outlined in the above-referenced standard. EIS's professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in the location of the subject property at the time of our investigation. This warranty is in lieu of all other warranties, expressed or implied. This ESA includes the following parts: reconnaissance, interviews, records review, and evaluation. In addition, this ESA addresses the following non-ASTM considerations: asbestos, lead-based paint, mold, radon and wetlands.

1.3 LIMITATIONS

Our professional judgment regarding the potential for environmental impacts is based on limited data and our investigation was not intended to be a definitive investigation of contamination at the subject property. Unless specifically set forth in our proposal, the scope of work did not include sampling of soil or groundwater, or a compliance audit pertaining to hazardous material use and storage, hazardous waste storage, or personnel health and safety training. In addition, this assessment did not include analyses of indoor air quality, asbestos, lead-based paint, formaldehyde, radon, or other hazardous materials.

Regarding any reviewed subsurface investigations and sampling and analysis data, our opinions are limited to specific areas and analytes evaluated. EIS will not be held accountable for detected analytes occurring at concentrations below laboratory detection limits. EIS does not warrant or guarantee that the subject property is suitable for any particular purpose or certify the subject property as "clean" or free from contamination. As with any assessment, it is possible that past or existing contamination remains undiscovered.

The professional opinions set forth in this report are based solely upon and limited to EIS's visual observations of the subject property and immediate vicinity, and upon EIS's interpretations of the readily available historical information, interviews with personnel knowledgeable about the subject property, and other readily available information (Appendix B). Consequently, this report is complete and accurate only to the extent that cited reports, agency information and recollections of persons interviewed are complete and accurate.

The opinions and recommendations in this report apply to observed conditions and features of the subject property, as they existed at the time of EIS's

investigation. They cannot necessarily apply to conditions and features of which EIS is unaware and has not had the opportunity to evaluate. Future regulatory modifications, agency interpretations, and/or policy changes may also affect the compliance status of the subject property. EIS has made no attempt to address future financial impacts to the site (e.g., reduced property values) as a result of potential on-site subsurface contamination.

1.4 DATA GAPS

EIS encountered no significant data gaps or limitations during the completion of this report, except for the following:

- EIS submitted a file review request with the Sacramento County Agricultural Commissioner (SCAC) on September 13, 2022. As of the date of this report, SCAC has not responded to this request. If SCAC provided EIS with additional relevant, non-duplicative information when it fulfills this request, EIS will issue an addendum to this report.
- EIS submitted a records request to the Sacramento County Environmental Management District (SCEMD) on August 23, 2022 to obtain information regarding the subject property. As of the date of this report, EIS has not received any documents from SCEMD. If SCEMD provides EIS with additional new, relevant, non-duplicative information when it fulfills this request, EIS will issue an addendum to this report.

Given the historical use of the subject property as agricultural land, EIS does not anticipate any of the above sources to have critical, relevant, non-duplicative information on file for the subject property. Therefore, these data failures do not represent significant data gaps.

1.5 USER RELIANCE

This Phase I Environmental Site Assessment was prepared for the sole and exclusive use of NorthPoint Development, LLC. This report is intended exclusively for the purpose outlined herein for the subject property and is intended to be used in its entirety. No excerpts may be taken to be representative of the findings of this assessment. The scope of services performed in execution of this investigation may not be appropriate to satisfy other users, and any use or reuse of this document or its findings, or conclusions presented herein is at the sole risk of the user. This report is not a specification for further work.

2.0 SITE RECONNAISSANCE

On September 2, 2022, Staff Geologist Peter Willits of EIS performed a visual reconnaissance of the subject property, adjoining properties, and surrounding areas to ascertain current and historical uses. Mr. Willits was generally unaccompanied during his reconnaissance. The subject property was

systematically traversed on foot; adjoining properties were observed from the subject property and from public thoroughfares. Photographs are appended. Figure 2 depicts the site plan.

2.1 CURRENT USE OF SUBJECT PROPERTY

The approximately 472-acre subject property is currently vacant, fallow agricultural land. The property is bordered by Bayou Way and Interstate 5 to the north, a dirt road to the east, a dirt road and the West Drainage Canal to the south, and an unnamed drainage canal and Powerline Road to the west. Unnamed drainage canals run roughly north-south in both the western and eastern portions of the property. Numerous unimproved dirt roads provide access to the interior of the property which is subdivided into multiple agricultural plots. A cell tower with a diesel generator and a front-loading tractor are located in northwestern part of property, along Bayou Road. Stockpiled soils were located to the west of the cell tower area. Portions of the subject property lie between Bayou Way and Interstate 5. The subject property is surrounded by vacant fields to the north (across I-5) and west, active fields to the south, and a multi-lot residential and commercial development to the east.

2.1.1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

EIS inspected the subject property for indications of the use, storage, or disposal of hazardous substances and petroleum products (e.g., manufacturing activities, drums, containers, stressed vegetation, stains, sheen, and heating/cooling systems). EIS observed no such indications except for the following:

- Small quantities (≤ 2 -quarts) used motor oil and oil-stained cardboard near the intersection of the eastern unnamed drainage canal and Bayou Way (on parcel 225-0020-017).
- One above ground diesel-powered generator associated with the cell tower near Bayou Way is located in the northwest portion of the subject property (on parcel 225-0020-035). No leaking or staining was observed.

The subject property appeared unpaved, so no pavement cracking was observed.

2.1.2 UNDERGROUND STORAGE TANKS (USTS)

EIS inspected the subject property for indications of USTs (e.g., vent piping, dispensing equipment, pavement variations, and fill ports). EIS observed no such indications.

2.1.3 ABOVEGROUND STORAGE TANKS (ASTS)

EIS inspected the subject property for indications of ASTs (e.g., pavement bolts, containers, reservoirs, and generators). EIS observed no such indications, except the following:

- One building permit described the installation of an emergency backup generator with a 190-gallon subbase diesel fuel tank on existing concrete pad, in the area of the cell tower in the northwest portion of the subject property (on parcel 225-0020-035). No leaking or staining was observed.
- One approximately 300-gallon caged tote water tank located near the eastern subject property boundary.
- One approximately 500-gallon trailer-mounted water tank located near the eastern subject property boundary.

2.1.4 LIQUID WASTE

EIS inspected the subject property for indications of liquid waste discharge sources (e.g., sumps, drains, clarifiers, pools of liquid, pits, ponds, lagoons, septic systems, wastewater, and storm water). EIS observed no such indications.

2.1.5 SOLID WASTE

EIS inspected the subject property for indications of solid waste disposal (e.g., mounding, depressions, fill material, bins, debris, and active human use). EIS observed no such indications.

- Minor scattered solid waste near the intersection of the eastern unnamed drainage canal and Bayou Way (on parcel 225-0020-017).
- Scattered solid waste including tires and waste cement between Bayou Way and I-5 (on parcel 225-0030-024).
- Stockpiled soils near Bayou Way near the northwest portion of the subject property (on parcel 225-0020-033).

2.1.6 POLYCHLORINATED BIPHENYLS (PCBS)

EIS inspected the subject property for indications of PCBs (e.g., transformers, capacitors, elevators, and lifts). EIS observed no such indications, except for the following:

- One pad-mounted transformer associated with the cell tower near Bayou Way in the northwest portion of the subject property (on parcel 225-0020-035). No leaking or staining was observed.

2.1.7 WELLS

EIS inspected the subject property for indications of supply, irrigation, monitor, injection, dry, abandoned, or other wells (e.g., protruding pipes, cover plates, pumps, small sheds, large water storage containers, and mounded grout). EIS observed no such indications.

2.2 CURRENT USE OF ADJOINING PROPERTIES

All adjoining and nearby properties generally consist of agricultural properties or vacant fields. The uses and features of the adjoining properties are described below:

- Southern adjoining: Agricultural land across irrigation canal (APNs 225-0020-012, -013, -014, and -015).
- Western Adjoining: Agricultural land across powerline road including two large water tanks (APNs 225-0010-009, -010, -017, and -021).
- Northern Adjoining: Agricultural land across I-5
- Eastern Adjoining: Multi-unit residential and commercial development

3.0 USER PROVIDED INFORMATION

ASTM E1527-13 defines “User” as the party seeking to use Practice E1527 to complete an environmental site assessment of the subject property. EIS understands that NorthPoint Development is the User as defined by ASTM E1527-13. ASTM E1527-13 specifies that certain tasks associated with identifying potential recognized environmental conditions at the subject property should be performed by the user and provided to the Environmental Professional (i.e., User Responsibilities).

Based on EIS’s review of the User-provided information, no readily apparent evidence of potential recognized environmental conditions at the subject property was noted. Information obtained from the User is provided below.

3.1 TITLE RECORDS

EIS was not provided with a title report for the subject property.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY & USE LIMITATIONS

There are no known environmental liens or activity and use limitations (AULs) associated with the subject property that the User is aware of.

3.3 SPECIALIZED KNOWLEDGE

The User provided no additional relevant, non-duplicative specialized knowledge pertaining to the subject property.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The User provided no additional relevant, non-duplicative information pertaining to the subject property.

3.5 VALUATION REDUCTIONS FOR ENVIRONMENTAL ISSUES

The User stated no valuation reduction for environmental issues.

3.6 REASON FOR PERFORMING PHASE I

The Phase I is being performed as part of CEQA requirement.

4.0 INTERVIEWS

4.1 SUBJECT PROPERTY OWNER/KEY SITE MANAGER

EIS interviewed Geoff Griffin of Northpoint Development, part owner of the subject property, for this assessment. Mr. Griffin Stated that Northpoint owns approximately 290-acres of the subject property, and that the entire property is slated for annexation and commercial development. Mr. Griffin also stated that he believed the stockpiled soils observed in the northwestern portion of the subject property to be associated with the recent construction of the Metro Air Parkway-I-5 bridge and interchange. Mr. Griffin did not provide any additional relevant, non-duplicative information.

4.2 TENANT-SPACE KEY SITE MANAGERS

EIS did not interview any tenant-space key site managers.

4.3 PREVIOUS OWNERS, OPERATORS, AND OCCUPANTS

EIS identified no previous subject property owners, operators, or occupants.

4.4 NEARBY PROPERTY OWNERS AND OCCUPANTS

EIS did not interview nearby property owners or occupants.

4.5 GOVERNMENT OFFICIALS

EIS did not interview government officials.

5.0 RECORDS REVIEW

EIS reviewed records pertaining to the subject property. In addition, where practicable and relevant, EIS reviewed records indicating uses at adjoining

properties and nearby properties or surrounding areas within approximate minimum search distances from the subject property.

5.1 PHYSICAL SETTING

5.1.1 PHYSIOGRAPHY

EIS reviewed the United States Geological Survey's (USGS) 2018 7.5-Minute Series Taylor Monument, California, Quadrangle Topographic Map. The ground surface elevation at the subject property is approximately 17 feet above mean sea level (msl). The subject property is relatively flat. A man-made drainage canal runs north-south through the eastern portion of the subject property. The subject property is bordered to the west, south, and east by man-made drainage canals. Fisherman's Lake is located approximately ½-mile south of the subject property, and the Sacramento River is located approximately ¾-mile to the south

5.1.2 GEOLOGY

The subject property is underlain by Quaternary-age alluvium and riverbank deposits (CGS 2011). Soils encountered during monitoring well installation approximately 2 miles northwest of the subject property consist of silty sand and sandy silt to approximately 16 feet below ground surface (bgs) (ERM, 2005).

5.1.3 HYDROGEOLOGY

For the above-noted site approximately 2 miles northwest of the subject property, groundwater data indicated that groundwater depths range from 9 to 7-feet bgs, with a southwest flow direction towards the Sacramento River. The local groundwater flow direction and gradient under the subject property may be influenced naturally by zones of higher or lower permeability, or artificially by nearby groundwater pumping or recharge and may deviate from the regional trend.

5.2 SANBORN FIRE INSURANCE MAPS

EIS requested Sanborn Fire Insurance Maps for the subject property, adjoining properties, and surrounding area from the Environmental Data Resources, Inc. (EDR) collection. According to EDR, such maps were not available (Appendix D).

5.3 AERIAL PHOTOGRAPHS

EIS reviewed aerial photographs for the years of 1937, 1947, 1957, 1964, 1966, 1972, 1984, 1993, 1998, 1999, 2006, 2009, 2012, and 2016 obtained from the EDR collection. The photographs are included in the appendices. Photograph descriptions for the subject property and adjoining properties follow.

Date	Aerial Photographs – Subject and Adjoining Properties
1937	The subject property appears in agricultural use as a hayfield and rice fields. All adjoining properties appear in similar agricultural use as

	<p>hayfields or rice fields. There is a structure on the east side of the property surrounded by haybales and other miscellaneous farm equipment. On the northwestern portion of the property there are two more structures that abut the property line as well as a circular structure on the western portion of the property. Interstate 5 trends east-west immediately to the north of the subject property. An unnamed canal is located immediately to the south of the subject property and is oriented east-west, until it veers sharply to the south once it reaches the eastern portion of the property.</p>
1947	<p>The subject property and adjoining properties appear generally unchanged from the 1937 photograph, with the exception that the circular structure is no longer present.</p>
1957-1984	<p>The subject property and all adjoining properties appear generally unchanged from the 1947 photograph. As of 1972 there is only one structure that is near the northern property boundary on the western side of the property. In addition, as of 1972, there is the addition of a potential irrigation canal in the eastern portion of the subject property that trends north south and connects to the canal that is immediately south of the subject property.</p>
1993	<p>The subject property and all adjoining properties appear generally unchanged from the 1984 aerial photograph.</p>
1998-1999	<p>Both images are not fully mapped. The 1998 image is missing approximately 1/3 of the western portion of the subject property and the 1999 image is missing approximately 1/3 of the eastern portion of the subject property. The portions of the subject property and all adjoining properties that are available appear generally unchanged from the 1993 photograph.</p>
2006	<p>The subject property and all adjoining properties appear generally unchanged from the 1999 photograph, except that there is the addition of what appears to be a residential development east of the subject property. In addition, there is a small structure that is visible in the northwestern portion of the subject property which is likely a cell phone tower.</p>
2009-2016	<p>The subject property and all adjoining properties appear generally unchanged from the 2006 photograph, with the exception of numerous white, square boxes or construction materials that are visible in the northwest portion of the subject property.</p>

5.4 TOPOGRAPHIC MAPS

EIS reviewed topographic maps for the years of 1907, 1915, 1950, 1951, 1954, 1967, 1975, 1980, 2012, 2015 and 2018 obtained from the US Geologic Survey's website. Map descriptions follow.

Date	Topographic Maps – Subject Property and Adjoining Properties
1907-1915	The subject property is partially on what is potentially an intermittent lake which extends to the western, southern, and northern adjoining property. The eastern portion of the property is depicted as vacant land as well as the eastern adjoining property. A large river identified as Fishermans Lake is depicted connecting to the intermittent lake on the 1907 and 1915 maps.
1950-1954	The subject property is depicted as vacant land. The intermittent lake is no longer depicted, and Fisherman's Lake is depicted as connecting to a west-east trending canal that is adjacent to the southern subject property boundary. This layout appears to match that of the present day. There is a road network that is depicted surrounding the subject property in a grid.
1967-1980	The subject property and all nearby and adjoining properties appear generally unchanged from the 1954 map with the exception of the I-5 that is depicted in the 1967 map as well as a set of potential unpaved roads depicted along the northern portion of the property in the 1975 map.
2012-2018	The subject property and all nearby and adjoining properties appear generally unchanged from the 1980 map with the addition of a housing development east of the subject property. As of 2012 the layout of the roads matched the present.

5.5 CITY DIRECTORIES

As the subject property did not have a street address and neighboring sites did not have street addresses, there were no listings for the subject property or neighboring sites in available City Directories.

5.6 REGULATORY AGENCIES

5.6.1 TAX ASSESSOR

EIS reviewed Sacramento County Tax Assessor's Records online on August 22, 2022. According to information obtained from the assessor's website, the Assessor's Parcel Number (APNs) for the subject property are as follows:

- 225-0020-022
- 225-0020-023
- 225-0020-024
- 225-0020-034
- 225-0020-035
- 225-0020-033
- 225-0020-030
- 225-0020-026
- 225-0020-027
- 225-0020-021
- 225-0020-016
- 225-0020-032
- 225-0020-017
- 225-0020-010
- 225-0030-048
- 225-0030-024
- 225-0030-023
- 225-0030-045

All parcels are zoned for agricultural use.

5.6.2 AGRICULTURAL COMMISSIONER

EIS submitted a file review request with the Sacramento County Agricultural Commissioner (SCAC) on September 13, 2022. As of the date of this report, SCAC has not responded to this request.

5.6.3 BUILDING DEPARTMENT

EIS submitted a file review request with the Sacramento County Department of Community Development (SCDCD) on August 22, 2022. SCDCD responded on August 24, 2022, with one record pertaining solely to assessor information and nine building permits. The building permits are summarized as follows:

- Two permits issued for the replacement of a conductor at pump motors in 2011, 2014, on the following parcel: 225-0030-045.
- Three permits issued on multiple dates for the following parcels: 225-0020-003 and 225-0020-004. One for agricultural Power Pole (1999), dry rot repair (1978) and tear down single family dwelling (2005).

- Five permits issued on from 1996-2022 for the construction of a cell phone tower on the following parcel: 225-0020-030. One permit described the installation of an emergency backup generator with a 190-gallon subbase diesel fuel tank acoustic enclosure on existing concrete pad. There was one permit for the demolition of a barn in 2005. There was one permit for demolition of a single family house in 2005.

5.6.4 SACRAMENTO COUNTY FIRE DEPARTMENT

The Sacramento Metropolitan Fire District (SMFD) is not the official CUPA agency for properties located in unincorporated Sacramento County which includes the subject property. As such, EIS did not submit a records request to the SMFD. Any hazardous materials/hazardous waste records for the subject property would be maintained by the Sacramento County Environmental Management Department (section 5.6.4 below).

5.6.5 DEPARTMENT OF ENVIRONMENTAL HEALTH

EIS submitted an online file review request to the Sacramento County Environmental Management Department (SCEMD) on August 23, 2022. As of the date of this report SCEMD had not responded to this request.

5.6.6 STATE WATER RESOURCES CONTROL BOARD

EIS reviewed the State Water Resources Control Board's (SWRCB's) GeoTracker database website on September 12, 2022 and identified no records pertaining to the subject property.

Additionally, EIS reviewed the GeoTracker Database and identified no sites located up- to cross-gradient of the subject property with cases involving soil or groundwater within a half mile radius.

5.6.7 DEPARTMENT OF TOXIC SUBSTANCES CONTROL

EIS reviewed the Department of Toxic Substance Control's (DTSC's) Envirostor database website on September 13, 2022 and found no records pertaining to the subject property.

Additionally, EIS reviewed the Envirostor database and identified no sites located up- to cross-gradient of the subject property with cases involving soil or groundwater within the ASTM-specified search distance of ¼ of a mile.

5.7 PREVIOUS REPORTS

EIS was not provided with any previous reports by the User.

5.8 DATABASE REVIEW

EIS reviewed a regulatory agency database search report summary prepared by EDR for information pertinent to the subject property and offsite facilities located within ASTM-specified search distances from the subject property. The database report is included in the appendices. The database report identifies 12 plotted sites, as well as the accessed databases for these sites and the dates when information was updated. According to the EDR report, the following database listings were included for the subject property.

AT&T Mobility - (USID20672) – *4690 Bayou Way, Sacramento, CA (Subject Property). SACRAMENTO CO. ML. CERS*

- These records pertain to the cell tower located on the subject property and indicates that no hazardous materials are stored onsite. No violations were listed according to a July 2020 inspection.

This listing is incorrectly plotted on the EDR database as outside of the subject property; however, this listing appears to pertain to the cell tower located on the subject property.

Kaweah Construction Co. – *4401 N Bayou Way, Sacramento, CA (Adjoining Property). HWTS HAZNET.*

- Occupant was identified as a generator as 7.5 tons of unspecified oil-containing waste and 0.1 tons of other organic waste in 2006.

This address is plotted on the EDR report as on the subject property however the listed address is associated with the northern adjoining address across I-5. According to the aerial imagery the northern adjoining property was under construction around 2006, the time of this database listing. EIS considers it likely that this database listing refers to the northern adjoining property rather than to the subject property.

MSA: Metroair Park Storm Drain D-49 – *4565 West Bayou Rd, Sacramento, CA (Subject Property). SACRAMENTO CO. MASTER LIST (ML), AST*

- Plotted along Bayou way identifying the location of a storm drain pump.

Additionally, no adjoining properties or nearby properties were identified in the EDR report that are located up- to cross-gradient of the subject property with cases involving groundwater or potentially impacting the subject property. All additional plotted database listings are summarized below:

West Lakeside middle school/high school expansion – *Snelling Lane/Westlake Parkway (~1/4-mile south-southeast). ENVIROSTOR SCH.*

- Based on a 2007 report soil sampling results from this site indicated there were no contaminants found and the DTSC issued a no action determination.

West Lakeside middle school/high school expansion – *Snelling Lane/Westlake Parkway (~1/4-mile south-southeast)*. ENVIROSTOR SCH.

- Based on a 2006 report numerous insecticides were detected in soil at this site. Despite this the DTSC issued a no action determination.

Northborough Elementary School – *Banfield Drive/Minden Way, Sacramento, CA (~1/2-mile south-southwest)*. ENVIROSTOR SCH.

- Based on a 2002 report soil sampling results from this site indicated there were no contaminants found and the DTSC issued a no action determination.

Westlake Elementary School – *Del Paso Road/Wyndview Way, Sacramento, CA (~1/2-mile southeast)*. ENVIROSTOR SCH.

- There are no reported chemicals of concern and as of 2013 the DTSC considers this site inactive.

Natomas Middle School – *3700 Del Paso Rd., Sacramento, CA (~1/2-mile southeast)*. ENVIROSTOR SCH., SWEEPS UST, CA FID UST

- Based on a 2001 report numerous insecticides were detected in soil at this site. Despite this the DTSC issued a no action determination.

Proposed Terrace Park Elementary School – *Greg Thatch Circle & Tres Peizas Way, Sacramento, CA (~1-mile northeast)*. ENVIROSTOR SCH., SWEEPS UST, CA FID UST

- Based on a 2007 report numerous insecticides were detected in soil at this site. Despite this the DTSC issued a no action determination.

It is important to consider that the listing of nearby properties in environmental databases does not necessarily constitute an environmental concern.

6.0 NON-ASTM CONSIDERATIONS

6.1 ASBESTOS

The subject property was previously developed with structures constructed before was constructed sometime before 1937. Due to the age of the structures, there is a potential that asbestos-containing materials (ACMs) are present in the areas of former structures and/or any miscellaneous items on the subject property. Suspect ACMs were not observed during the site reconnaissance. However, prior to redevelopment of the site, it is recommended that an AHERA and State Certified Inspector Asbestos Consultant survey and test all suspect ACM that could potentially be disturbed by the work. If ACMs are found, have the Certified Asbestos Consultant prepare and implement work procedures and associated Operations and Maintenance (O&M) Plans, as applicable.

6.2 LEAD-BASED PAINT

Due to the age of the structures formerly located on the subject property, there is a possibility that lead paint was utilized to paint surfaces within the structures. Painted surfaces are not expected to pose a health and safety concern to the occupants of the subject property at this time. However, prior to redevelopment of the site, the borrower should have a State Licensed Lead-Based Paint Consultant test all suspect LBP that could potentially be disturbed by the work. If LBP is identified, the borrower should have the State-licensed Lead-Based Paint Consultant prepare and implement work procedures and associated O&M Plans, as applicable.

6.3 MOLD

A visual inspection of observable portions of subject property for evidence of moisture incursion and visible fungal growth was performed. The inspection was not intended to disclose all possible microbial reservoirs or growth sites; rather, it was designed to screen the subject property for evidence of potential microbial issues in the areas inspected. Physical sampling and analysis of materials or air was not conducted during the assessment. During the inspection, evidence of visible water staining/damage and possible fungal growth was not observed.

6.4 RADON

Radon gas is a by-product of uranium. The gas forms as uranium molecules eject some protons and neutrons from their nuclei changing first into thorium, then radium, and finally radon. Radon tends to accumulate in uranium-rich metamorphic rocks, glacial moraines and till deposits derived from uranium-bearing rocks, marine organic shales, soils derived from carbonate rocks, and uranium-containing alluvial sediments deposited by rivers, deltas, lakes, etc. Outgassing of radon has not been identified as a problem in this region of Sacramento County. According to radon survey results provided by the EDR, the subject property is located within Region 2 with average radon gas levels reported at 2 to 3 picocuries per liter of air (pCi/l). The level above which the U.S. Environmental Protection Agency recommends that action be taken to reduce radon levels is 4 pCi/l.

6.5 WETLANDS

EIS made visual observations for indications of the presence or potential presence of wetland areas on or immediately adjacent to the subject property. During reconnaissance, EIS observed no such indications of wetlands. No wetlands survey was performed. No wetlands occur within the boundaries of the subject property or on the adjoining properties.

7.0 FINDINGS AND OPINIONS

Environmental Investigation Services Inc. (EIS) has completed a Phase I Environmental Site Assessment (ESA) for the properties at 3880, 3990, 4690 and 4696 Bayou Way with Assessor Parcel Numbers (APNs) 225-0020-022, 225-0020-023, 225-0020-024, 225-0020-034, 225-0020-035, 225-0020-033, 225-0020-030, 225-0020-026, 225-0020-027, 225-0020-021, 225-0020-016, 225-0020-032, 225-0020-017, 225-0020-010, 225-0030-048, 225-0030-024, 225-0030-023, 225-0030-045, Sacramento County, California (subject property).

The approximately 472-acre subject property is currently vacant, fallow agricultural land. The property is bordered by Bayou Way and Interstate 5 to the north, a dirt road to the east, a dirt road and the West Drainage Canal to the south, and an unnamed drainage canal and Powerline Road to the west. Unnamed drainage canals run roughly north-south in both the western and eastern portions of the property. Numerous unimproved dirt roads provide access to the interior of the property which is subdivided into multiple agricultural plots. A cell tower with a diesel generator and a front-loading tractor are located in northwestern part of property, along Bayou Road. Stockpiled soils were located to the west of the cell tower area. Portions of the subject property lie between Bayou Way and Interstate 5. The subject property is surrounded by vacant fields to the north (across I-5) and west, active fields to the south, and a multi-lot residential and commercial development to the east.

EIS identified obvious subject property uses from the present back to 1937, at which time the subject property was in agricultural use as hay fields and possibly intermittent rice fields continued until at least 2020.

Surrounding properties appeared predominantly as agricultural fields with rice fields or hay fields by 1937. Similar uses continue through the present, with the exception of a single family residence to the south and multi-unit residential and commercial development constructed around 2006 to the east.

This ESA revealed the following notable findings:

- The subject property was used for agricultural purposes as hay fields and rice fields from at least 1937 through at least 2020. Although not documented at the subject property, agricultural chemicals including organochlorine pesticides and metal compounds may have been applied to the property. This use can result in concentrations of residual agricultural chemicals being present in the near surface soil (i.e., 1 to 3 feet bgs). However, residual agricultural chemicals typically are not present at concentrations that would influence offsite disposal of soil or pose a health risk to commercial site users when the land use is limited to rice fields and hay fields. Therefore, this finding is *de minimis*.

- One building permit described the installation of an emergency backup generator with a 190-gallon subbase diesel fuel tank on the existing concrete pad, in the area of the cell tower in the northwest portion of the subject property (on parcel 225-0020-035). No leaking or staining was observed. This finding is *de minimis*.
- Stockpiled soils were observed in the northwest portion of the subject property, to the east of the cell tower (Figure 2). Mr. Griffin stated that these soils were likely associated with the recent construction of the Metro Air Parkway-I-5 bridge and interchange. EIS was not provided with any documentation for the source of these stockpiled soils. The presence of unknown origin soil stockpiles on the subject property is a potential environmental concern.
- Small amounts of solid waste, including discarded tires and burnt debris, were observed at various locations around the subject property. Additionally, a small amount of used motor oil and oil-stained cardboard were observed near the intersection of the eastern drainage canal and Bayou Way. While the small quantities of these wastes make this finding *de minimis*, it would be prudent to remove these wastes prior to redevelopment.
- The plotted and orphan facilities that were identified in the database search report are not expected to present an environmental concern to the subject property because: i) they only hold an operating permit (which does not imply a problem); ii) they are not required to perform further action; iii) the nature of the identified environmental concern does not suggest that the subject property would be impacted; or iv) based upon EIS's review, are too distant and/or hydraulically downgradient or cross-gradient relative to the subject property to reasonably affect it. This finding is *de minimis*.

8.0 CONCLUSION & RECOMMENDATIONS

EIS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13. This assessment has revealed no evidence of recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), or controlled recognized environmental conditions (CRECs) in connection with the subject property. However, the presence of unknown soil stockpiles on the subject property is a potential environmental concern.

EIS recommends no further investigation at this time.

Prior to any commercial redevelopment of the property, it would be prudent to sample shallow soils for residual pesticides and the unknown fill soil stockpile.

9.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

"We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312" and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

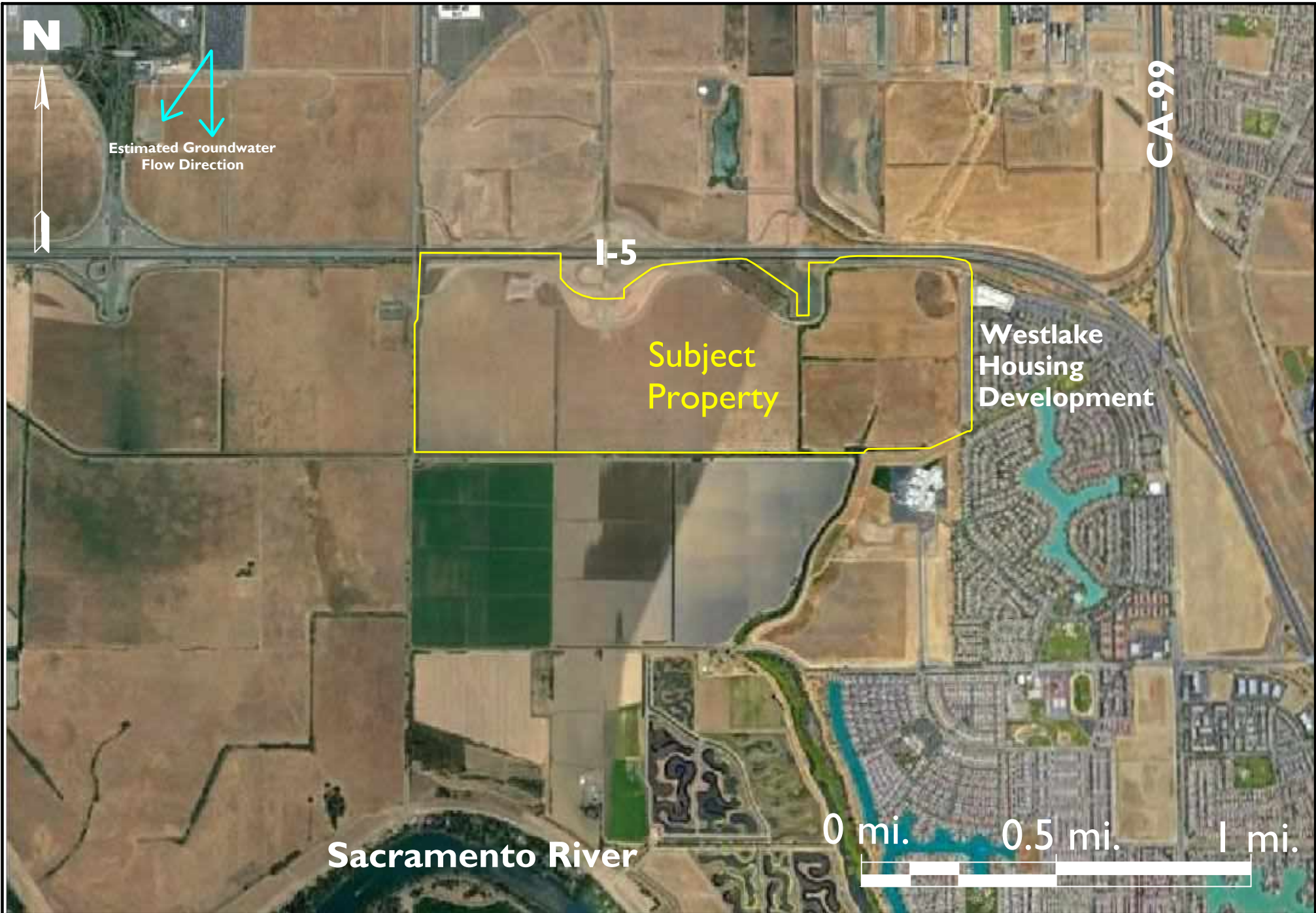


Peter Littman, Sr. Project Manager

PREPARED BY:

Environmental Investigation Services, Inc.
316 Mid Valley Center #313
Carmel, California 93923

FIGURES



Environmental Investigation Services, Inc.
316 Mid Valley Center #313
Carmel, California 93923
Ph: (408) 656-1032




Site Location Map

3880, 3990, 4690, & 4696 Bayou Way, Sacramento County, CA

Figure: I
EIS Project: 2217-1
August 25, 2022



- Legend**
-  Drainage Canal
 -  Cell Tower
 -  Soil Stockpiles
 -  Solid Waste



Site Detail Map

3880, 3990, 4690, & 4696 Bayou Way, Sacramento County, CA

SITE PHOTOGRAPHS



Project No. 2217-1	Description	View of haybales and a water tank near the eastern subject property boundary.	1
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the unnamed eastern drainage canal from Bayou Way. Minor solid waste is visible.	2
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of minor solid waste and a container of used motor oil near the eastern drainage canal and Bayou Way.	3
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View to the southwest of the subject property fields from Bayou Way.	4
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View to the north of the subject property and Highway I-5 from Bayou Way.	5
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the eastern portion of the subject property fields from Bayou Way.	6
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a burn area and discarded tires in the northeastern portion of the subject property from Bayou Way.	7
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a pile of discarded cement and tires in the northeastern portion of the subject property from Bayou Way.	8
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the West Drainage Canal and the unnamed eastern drainage canal's confluence from the subject property. The southern adjoining property is visible to the right.	9
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of overhead power lines along the West Drainage Canal in the southern portion of the subject property. A defunct electrical meter is visible.	10
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a hay baler along the southern subject property boundary.	11
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the cell tower on the subject property from Bayou Way.	12
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the cell tower including a pad-mounted transformer to the right and a diesel-powered generator to the left.	13
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a front loader parked near the cell tower on the subject property.	14
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of stockpiled soils to the west of the cell tower on the subject property.	15
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the eastern adjoining development from the subject property.	16
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View to the east-northeast of bayou way and Highway I-5. The I-5 overpass at Metro Air Parkway is visible.	17
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the northwestern adjoining property from the intersection of Bayou Way and Powerline Road.	18
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



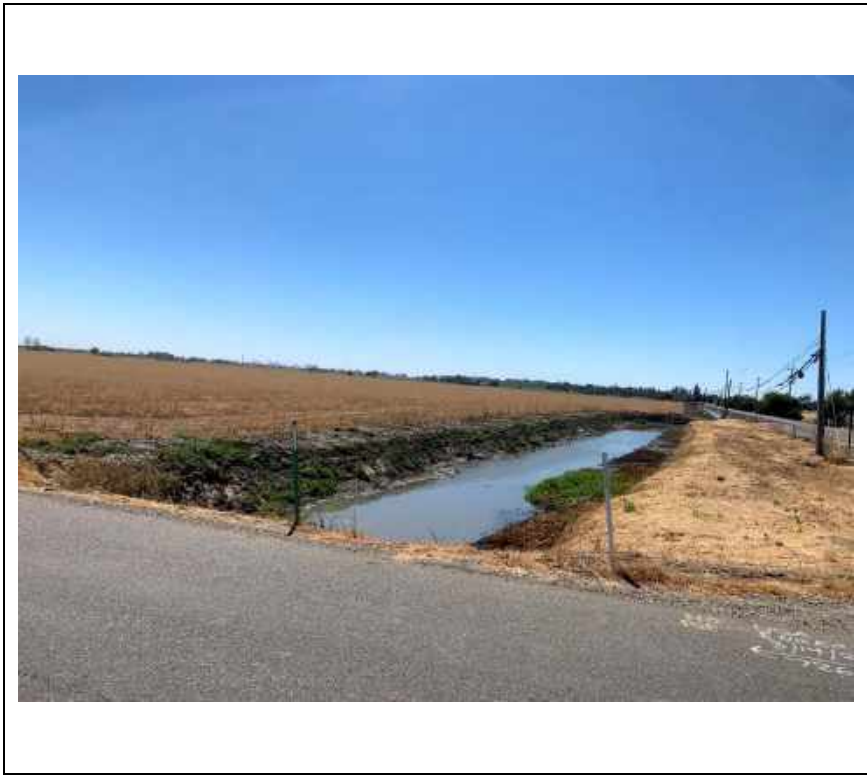
Project No. 2217-1	Description	View to the east of the West Drainage Canal from Powerline Road. The subject property is to the left and the southern adjoining property is to the right.	19
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a house on the southern adjoining property from Powerline Road.	20
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of a water tower on the western adjoining property from Powerline Road.	21
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022



Project No. 2217-1	Description	View of the unnamed drainage canal along Powerline Road near the western subject property boundary.	22
	Address	3880, 3990, 4690, and 7696 Bayou Way, Sacramento, CA	Photo Date September 2, 2022

APPENDIX A QUALIFICATIONS

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S)

Mr. Peter Littman, Project Manager has 25 years of experience managing environmental due diligence investigations as a Cal/EPA Registered Environmental Assessor (#03829) for property transactions including a large variety of commercial, industrial, and agricultural properties.

Mr. Littman excels at assessing property to determine whether further investigations are necessary to ensure compliance with laws or to complete due diligence and estimating the investigation and cleanup costs. He has successfully coordinated and completed numerous complex due diligence investigations within tight budget and time constraints.

Prior to forming EIS in 1996, Mr. Littman provided environmental consulting services for four years. As a Cal/EPA Registered Environmental Assessor, Mr. Littman has performed over 800 Phase 1 Environmental Assessments. As a project manager, he has completed over 120 soil and groundwater investigations, 60 tank removals, 25 soil remediation projects, 80 asbestos inspections, 50 lead paint inspections, and 30 Hazardous Material Management Plans. Mr. Littman has assisted clients in qualifying for the state tank fund and under guidance of professional staff has helped design site characterization and site remediation at tank fund sites.

As a project manager with C.E.T., Inc. he managed tank removal operations, soil and groundwater investigations, and Phase I assessments. He has also held a position as Corporate Health and Safety Officer for EVAX Technologies Inc., an Environmental Engineering/Contracting firm where he performed Phase I's and site safety plans for Hazardous Waste clean-up operations and conducted Federal OSHA 40 Hour Training Sessions. As a Health & Safety Officer he worked with a team designing underground tank removals, building decontamination of solvents, excavations, soil and groundwater sampling, and installation of remedial equipment.

Credentials

- Cal/EPA Registered Environmental Assessor REA #03829
- Federal OSHA Hazardous Waste Operation & Emergency Response 40 Hr and 8 Hr Supervisor

APPENDIX B
SOURCES CHECKED

SOURCES CHECKED

CONTACTS:

Agency and division/source: NorthPoint Development
Name/title of representative: Geoff Griffin/West Region Partner
Location of agency: 2000 Opportunity Drive #120, Roseville, CA
Agency telephone number: (916) 724-1007

Agency and division/source: Sacramento County Tax Assessor's Office
Name/title of representative: Staff
Location of agency: 3701 Power Inn Road, Sacramento, California
Agency telephone number: (916) 875-0730

Agency and division/source: Sac. County Community Development Department
Name/title of representative: Staff
Location of agency: 9700 Geothe Road Suite A, Sacramento, California
Agency telephone number: (916) 875-0268

Agency and division/source: Sacramento County Environmental Management Division
Name/title of representative: Staff
Location of agency: 10590 Armstrong Avenue, Mather, California
Agency telephone number: (916) 875-8484

Agency and division/source: Sacramento County Agricultural Commissioner
Name/title of representative: Staff
Location of agency: 4137 Branch Center Road, Sacramento, CA
Agency telephone number: (916) 875-6603

Agency and division/source: California Regional Water Quality Control Board – San Francisco Bay Region
Name/title of representative: Staff
Location of agency: 1515 Clay Street, Suite 1400, Oakland, California
Agency telephone number: (510) 622-2430

Agency and division/source: California Department of Toxic Substances Control
Name/title of representative: Staff
Location of agency: 700 Heinz Avenue, Suite 200, Berkeley, California
Agency telephone number: (510) 540-3003

REFERENCES:

Name of publication: California Geological Survey Geologic Mapping Program
Author of publication: California Geological Survey (CGS)
Date of publication: 2018

Name of publication: First Quarter Groundwater Monitoring Report, Former Sacramento Jet Facility, Sacramento International airport
Author of publication: Environmental Resources Management (ERM)
Date of publication: April 14, 2005

Name of publication: EDR Radius Map with GeoCheck
Author of publication: Environmental Data Resources, Inc. (EDR)
Date of publication: August 22, 2022

Name of publication: EDR Aerial Photo Decade Report
Author of publication: EDR
Date of publication: August 23, 2022

Name of publication: EDR Historical Topo Map Report
Author of publication: EDR
Date of publication: August 22, 2022

Name of publication: EDR City-Directory Image Report
Author of publication: EDR
Date of publication: August 23, 2022

APPENDIX C
USER QUESTIONNAIRE

ASTM E 1527 – 05 USER Questionnaire

In order to qualify for the *Landowner Liability Protection* (LLPs)³⁵ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),³⁶ the user must provide the following information (if available) to the environmental professional.

(1). **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).** Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? Not to my knowledge

(2). **Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).** Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? Not to my knowledge

(3). **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).** As the user of the ESA do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? No knowledge

(4). **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.30).** Does the purchase price being paid for this property reasonably reflect the fair market value of the *property*? Yes it reflects fair market value
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

(5). **Commonly Known or reasonably ascertainable information about the property (40 CFR 312.30).** Are you aware of commonly known information about the *property* that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user, (a.) Do you know the past uses of this *property*? To the best of my knowledge it has been agriculture

(b.) Do you know of specific chemicals that are present or once were present at the *property*?
Not to my knowledge

(c.) Do you know of spills or other chemicals releases that have taken place at the *property*?
Not to my knowledge

(d.) Do you know of any environmental cleanups that have taken place at the *property*?
Not to my knowledge

User: Geoff Griffin Date: 9/1/2022 Site Address: +/-290 at Bayou Road and Metro Air Pkwy
on behalf of
NP MAP Land Holding Co

Owner Questionnaire

Site Address: +/-290 acres at Bayou Road and Metro Air Pkwy, Sacramento, CA

Question:

- | | | | | |
|----|---|-----|-------------------------------------|-----|
| 1. | Is the property used for an industrial use? | Yes | <input checked="" type="radio"/> No | Unk |
| 2. | Is any adjoining property used for an industrial use? | Yes | <input checked="" type="radio"/> No | Unk |
| 3. | Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past? | Yes | <input checked="" type="radio"/> No | Unk |
| 4. | Did you observe evidence or do you have any prior knowledge that any adjoining property has been used for industrial use in the past? | Yes | <input checked="" type="radio"/> No | Unk |
| 5. | Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? | Yes | <input checked="" type="radio"/> No | Unk |
| 6. | Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? | Yes | <input checked="" type="radio"/> No | Unk |
| 7. | Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? | Yes | <input checked="" type="radio"/> No | Unk |

8. Did you observe evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? Yes No Unk
9. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility? Yes No Unk
10. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility? Yes No Unk
11. Are there currently any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility? Yes No Unk
12. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility? Yes No Unk
13. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site? Yes No Unk
14. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin? Yes No Unk
15. Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Yes No Unk

16. Did you observe evidence or do you have any prior knowledge that there have been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Yes No Unk
17. Is there currently any stained soil on the property? Yes No Unk
18. Did you observe evidence or do you have any prior knowledge that there has been previously any stained soil on the property? Yes No Unk
19. Are there currently any registered or unregistered storage tanks (above or underground) located on the property? Yes No Unk
20. Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property? Yes No Unk
21. Are there currently any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property? Yes No Unk
22. Did you observe evidence or do you have any prior knowledge that there have been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent any structure located on the property? Yes No Unk
23. Is there currently evidence of leaks, spills or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property? Yes No Unk
24. Did you observe evidence or do you have any prior knowledge that there have been previously any leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring drains, walls, ceilings or exposed grounds on the property? Yes No Unk

25. If the property is served by a private well or no-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system? Yes No **Unk**
26. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency? Yes No **Unk**
27. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property? Yes **No** Unk
28. Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? Yes **No** Unk
29. Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? Yes **No** Unk
30. Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property? Yes **No** Unk
31. Has the owner or occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property? Yes **No** Unk
32. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous Yes **No** Unk

substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?

- | | | | | |
|-----|---|-----|-------------------------------------|--------------------------------------|
| 33. | Does the owner or occupant of the property know of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance petroleum products involving the property by any owner or occupant of the property? | Yes | <input checked="" type="radio"/> No | <input type="radio"/> Unk |
| 34. | Does the property discharge waste water (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system? | Yes | <input type="radio"/> No | <input checked="" type="radio"/> Unk |
| 35. | Does the property discharge waste water (not including sanitary waste water or storm water) onto or adjacent to the property and/or into a sanitary sewer system? | Yes | <input type="radio"/> No | <input checked="" type="radio"/> Unk |
| 36. | Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property? | Yes | <input checked="" type="radio"/> No | <input type="radio"/> Unk |
| 37. | Are their any septic systems on the property? | Yes | <input type="radio"/> No | <input checked="" type="radio"/> Unk |

The Owner Questionnaire was completed by:

Name: Geoff Griffin

Title: Owner Representative

Address: _____

APPENDIX D
SANBORN FIRE INSURANCE MAPS

Agricultural Property

3880 Bayou Way

SACRAMENTO, CA 95835

Inquiry Number: 7093394.3

August 22, 2022

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/22/22

Site Name:

Agricultural Property
3880 Bayou Way
SACRAMENTO, CA 95835
EDR Inquiry # 7093394.3

Client Name:

Env. Inv. Services, Inc.
9311 Holt Road
Carmel, CA 93923
Contact: Peter Littman



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Env. Inv. Services, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 1146-473D-A578

PO # 217-1

Project 2217-1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 1146-473D-A578

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Env. Inv. Services, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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APPENDIX E
AERIAL PHOTOGRAPHS



Agricultural Property

3880 Bayou Way

SACRAMENTO, CA 95835

Inquiry Number: 7093394.8

August 23, 2022

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/23/22

Site Name:

Agricultural Property
3880 Bayou Way
SACRAMENTO, CA 95835
EDR Inquiry # 7093394.8

Client Name:

Env. Inv. Services, Inc.
9311 Holt Road
Carmel, CA 93923
Contact: Peter Littman



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=1000'	Flight Year: 2016	USDA/NAIP
2012	1"=1000'	Flight Year: 2012	USDA/NAIP
2009	1"=1000'	Flight Year: 2009	USDA/NAIP
2006	1"=1000'	Flight Year: 2006	USDA/NAIP
1999	1"=1000'	Acquisition Date: January 01, 1999	USGS/DOQQ
1998	1"=1000'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=1000'	Acquisition Date: June 15, 1993	USGS/DOQQ
1984	1"=1000'	Flight Date: June 29, 1984	USDA
1972	1"=1000'	Flight Date: July 27, 1972	USDA
1966	1"=1000'	Flight Date: August 04, 1966	USGS
1964	1"=1000'	Flight Date: May 11, 1964	USDA
1957	1"=1000'	Flight Date: September 12, 1957	USDA
1947	1"=1000'	Flight Date: July 28, 1947	USGS
1937	1"=1000'	Flight Date: August 18, 1937	USDA

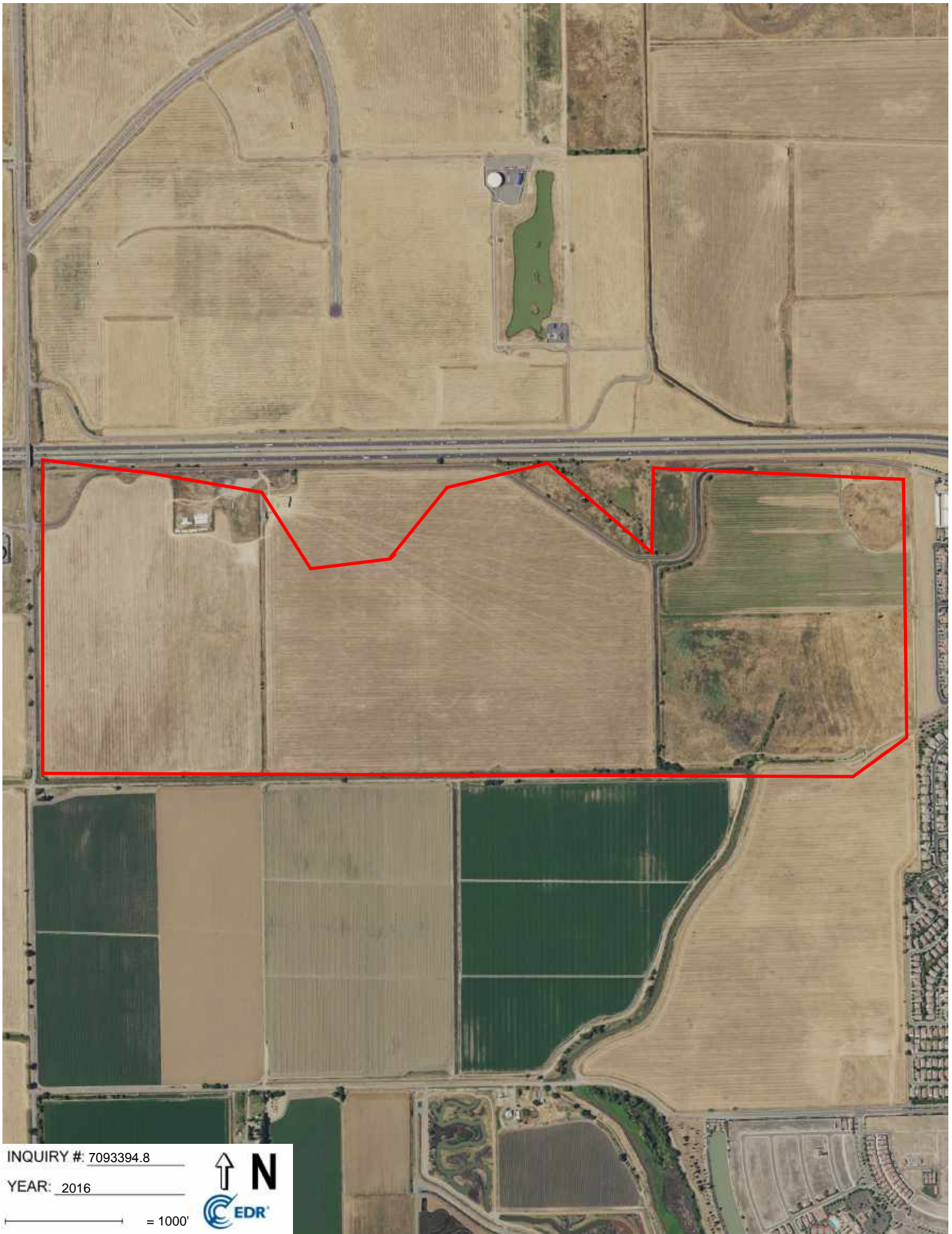
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 7093394.8

YEAR: 2016

— = 1000'



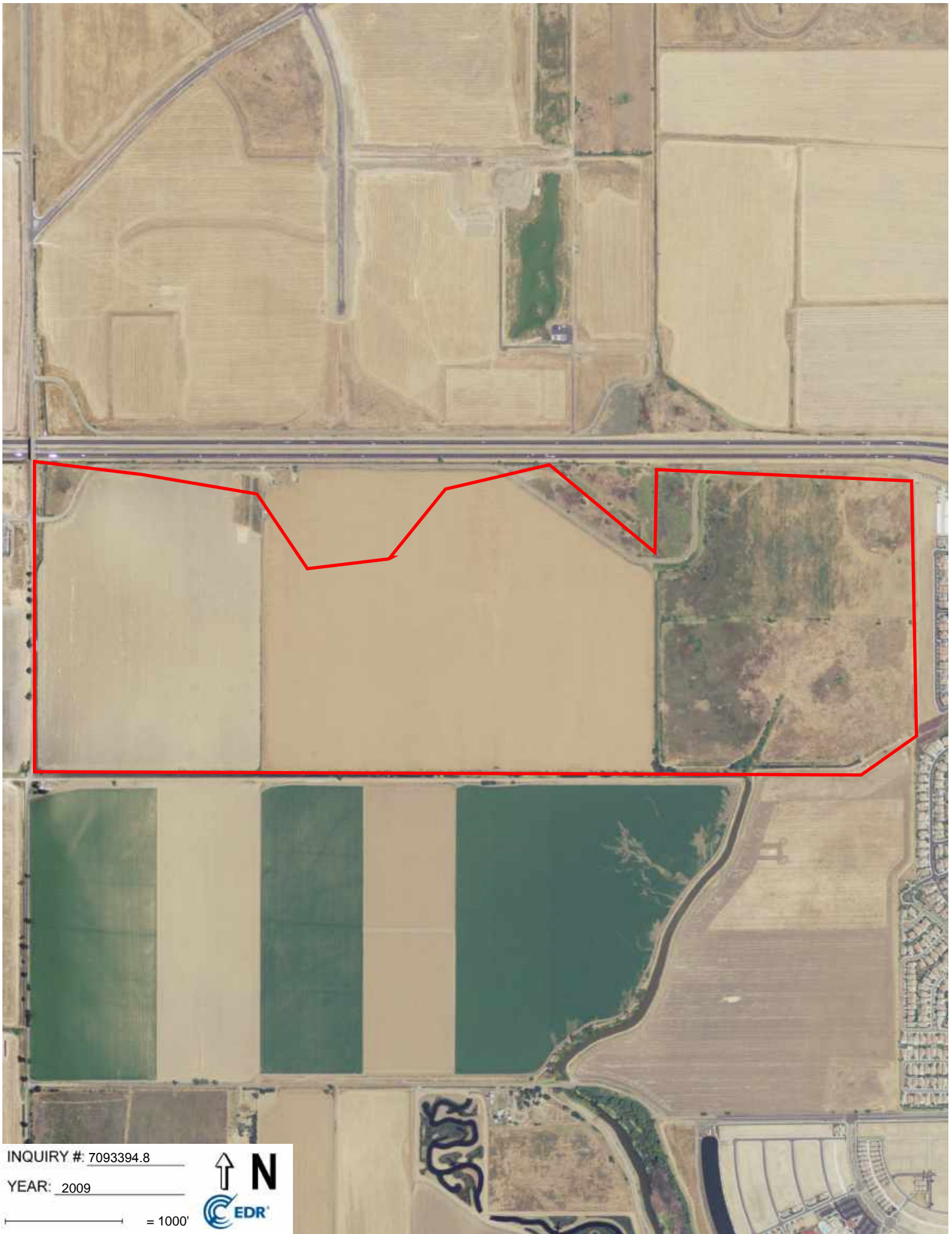


INQUIRY #: 7093394.8

YEAR: 2012

— = 1000'



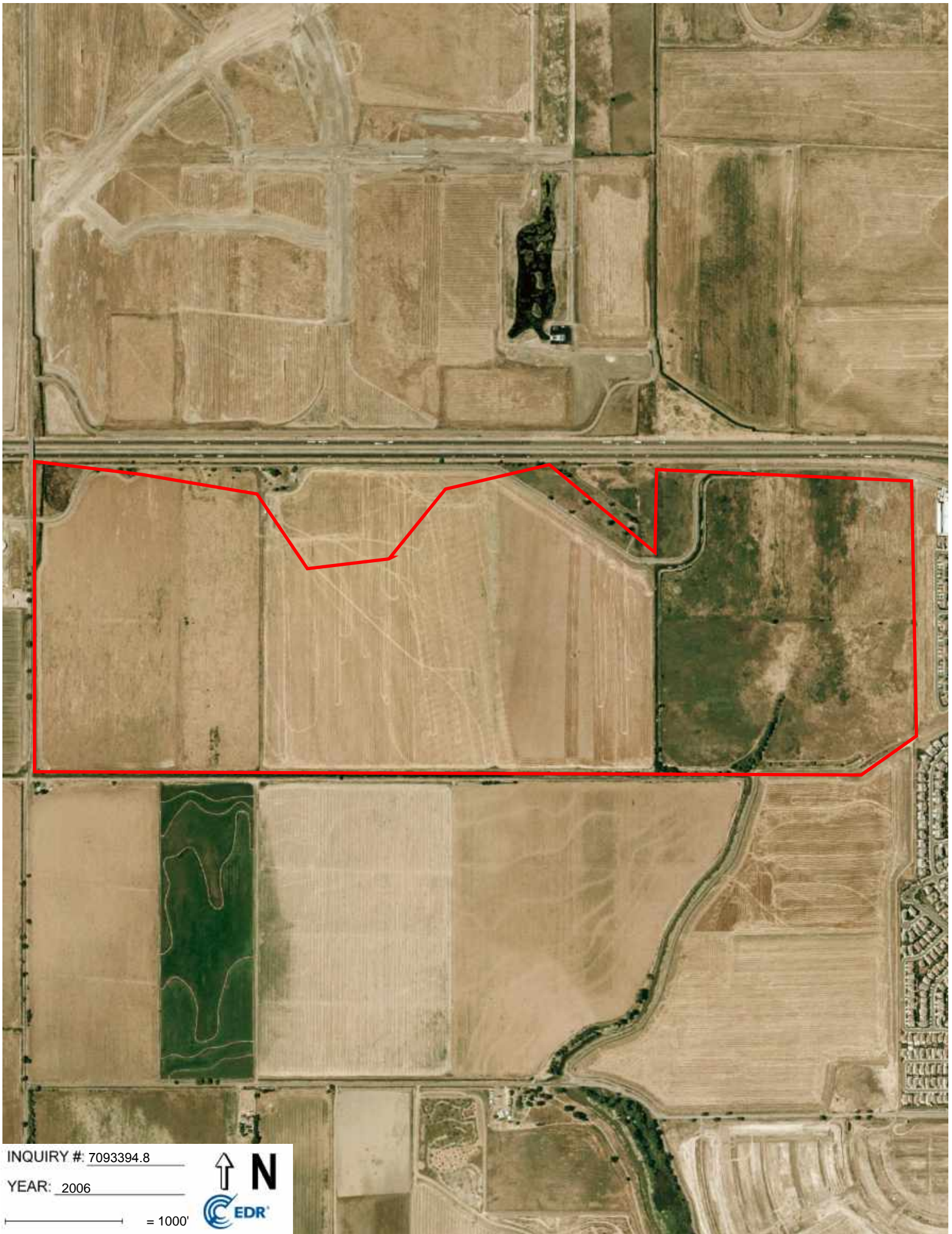


INQUIRY #: 7093394.8

YEAR: 2009

— = 1000'





INQUIRY #: 7093394.8

YEAR: 2006

— = 1000'





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INQUIRY #: 7093394.8

YEAR: 1999



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INQUIRY #: 7093394.8

YEAR: 1998



— = 1000'



INQUIRY #: 7093394.8

YEAR: 1993

— = 1000'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.

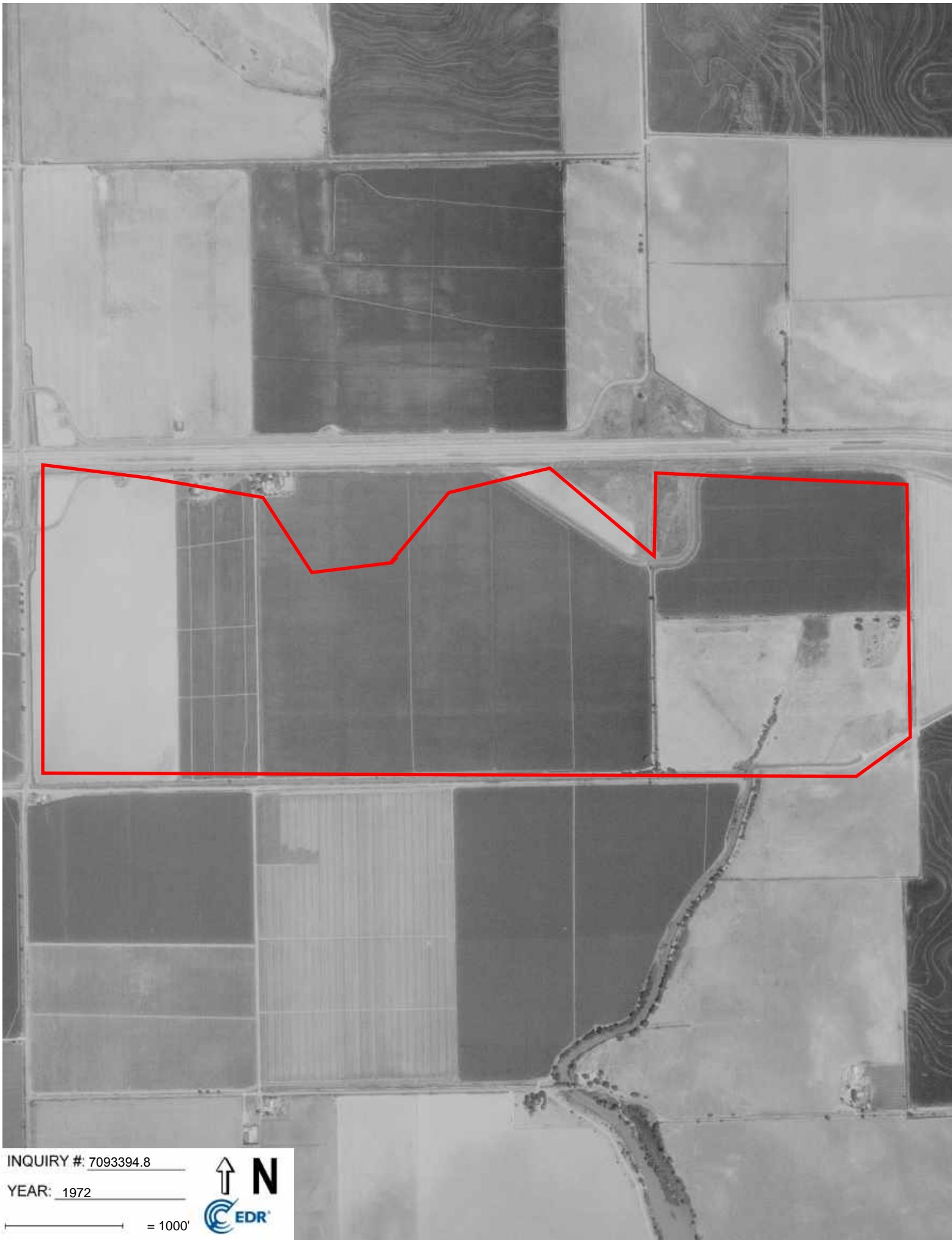


INQUIRY #: 7093394.8

YEAR: 1984

— = 1000'





INQUIRY #: 7093394.8

YEAR: 1972

— = 1000'





INQUIRY #: 7093394.8

YEAR: 1966

— = 1000'





INQUIRY #: 7093394.8

YEAR: 1964

— = 1000'



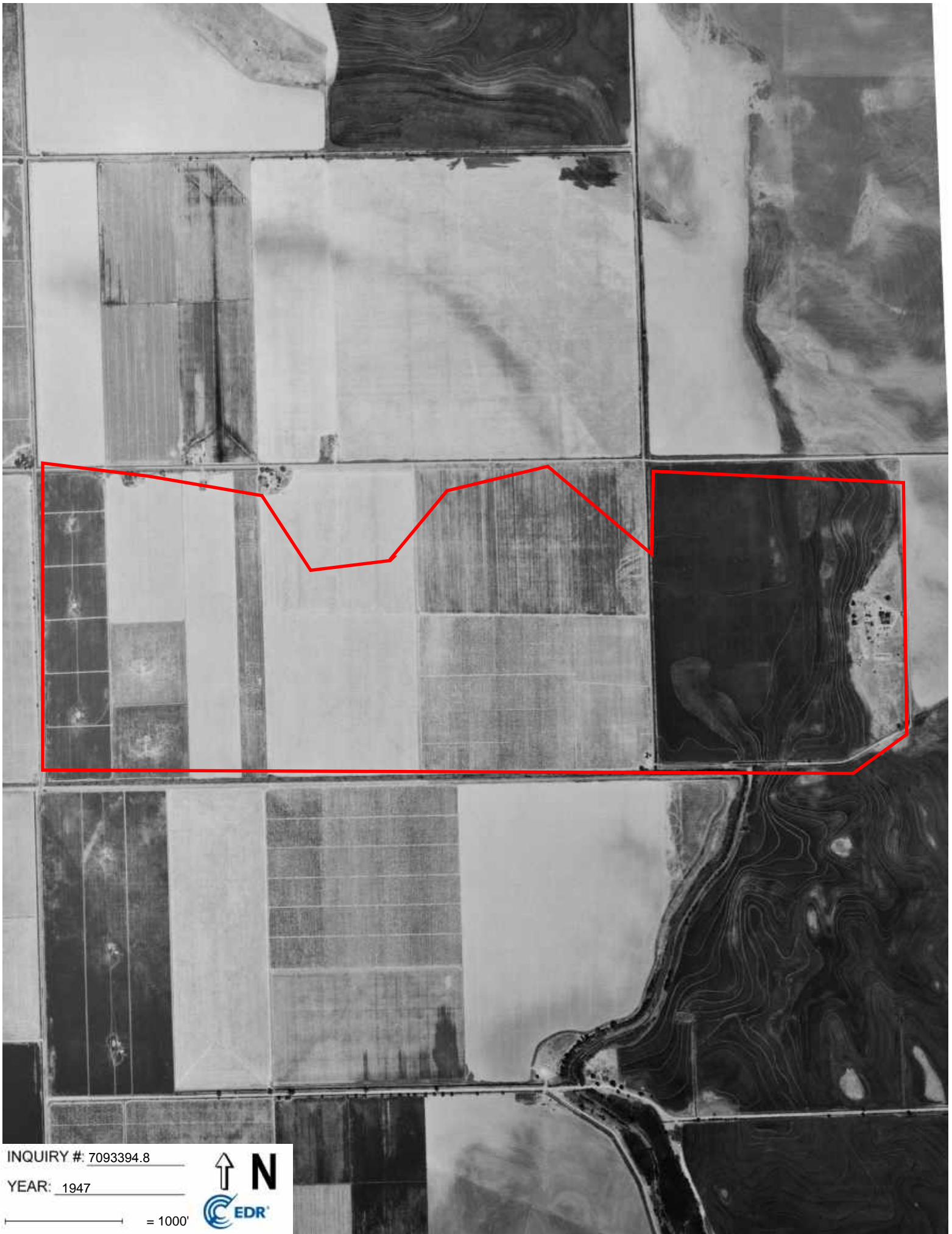


INQUIRY #: 7093394.8

YEAR: 1957

— = 1000'





INQUIRY #: 7093394.8

YEAR: 1947

— = 1000'





INQUIRY #: 7093394.8

YEAR: 1937

— = 1000'



**APPENDIX F
CITY DIRECTORY**

Agricultural Property

3880 Bayou Way
SACRAMENTO, CA 95835

Inquiry Number: 7093394.5
August 23, 2022

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2005	Haines Company, Inc.	-	X	X	-
2004	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2002	SBC PACIFIC BELL	-	-	-	-
1999	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1999	Haines Company	-	-	-	-
	Haines Company	X	-	X	-
1995	Pacific Bell	-	-	-	-
1994	Cole Information Services	-	-	-	-
1991	Pacific Bell	-	-	-	-
1982	R. L. Polk & Co.	-	-	-	-
1980	R. L. Polk & Co.	-	-	-	-
1975	R. L. Polk Co.	-	-	-	-
1970	Sacramento Directory Co.	-	-	-	-
1966	Sacramento Directory Co.	-	-	-	-
1965	Sacramento Directory Co. Publishers	-	-	-	-
1961	Sacramento Directory Co.	-	-	-	-
1957	Sacramento Directory Co.	-	-	-	-
1956	Sacramento Directory Co.	-	-	-	-
1952	Sacramento Directory Co.	-	-	-	-
1947	Sacramento Directory Co.	-	-	-	-
1942	Sacramento Directory Co.	-	-	-	-
1937	Sacramento Directory Co.	-	-	-	-
1933	Sacramento Directory Co.	-	-	-	-
1928	Sacramento Directory Co.	-	-	-	-
1923	Sacramento Directory Co.	-	-	-	-
1920	Sacramento Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
4696 BAYOU WAY	Client Entered	
3990 BAYOU Way	Client Entered	
4690 Bayou Way	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3880 Bayou Way
SACRAMENTO, CA 95835

FINDINGS DETAIL

Target Property research detail.

BAYOU Way

3990 BAYOU Way

<u>Year</u>	<u>Uses</u>	<u>Source</u>
-------------	-------------	---------------

BAYOU WAY

4690 BAYOU WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	KENNETH PIERSON	Cole Information Services
2004	KENNETH PIERSON	Cole Information Services
1999	KENNETH PIERSON	Cole Information Services

Bayou Way

4690 Bayou Way

<u>Year</u>	<u>Uses</u>	<u>Source</u>
-------------	-------------	---------------

BAYOU WAY

4696 BAYOU WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	ROGER WIESE	Cole Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BAYOU WAY

3800 BAYOU WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	NORTH NATOMAS SELF STORAGE	Cole Information Services
2014	NORTH NATOMAS SELF STORAGE	Cole Information Services
2009	NORTH NATOMAS SELF STORAGE	Cole Information Services

ELIJAH PL

2 ELIJAH PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	KEVIN BOGAN	Cole Information Services
2014	PATRICIA MAKRIS	Cole Information Services
2009	JIM ROSEBERRY	Cole Information Services
1999	JIM ROSEBERRY	Cole Information Services

3 ELIJAH PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	JANET YOUNG	Cole Information Services
1999	JANET YOUNG	Cole Information Services

8 ELIJAH PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	KENT CHAN	Cole Information Services
2014	KENT CHAN	Cole Information Services
2009	KENT CHAN	Cole Information Services

9 ELIJAH PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	AMANDEEP SINGH	Cole Information Services
2014	CHRISTINE RIVAS	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	THOMAS CONNER	Cole Information Services
1999	THOMAS CONNER	Cole Information Services

GRESHAM LN

3813 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	MARK GARCIA	Cole Information Services
2014	CAROLYN BREITKREUTZ	Cole Information Services
2009	JESSE YANG	Cole Information Services
2005	YANGJessae J	Haines Company, Inc.
2004	JESSE YANG	Cole Information Services
1999	JESSE YANG	Cole Information Services

3819 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DAVID KNOX	Cole Information Services
2014	DAVID KNOX	Cole Information Services
2009	CRAIG JONES	Cole Information Services
2005	JONESCraig	Haines Company, Inc.
2004	JENNIFER BAILY	Cole Information Services
1999	CRAIG JONES	Cole Information Services

3824 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	WILLIAM CHING	Cole Information Services
2014	WILLIAM CHING	Cole Information Services
2009	WILLIAM CHING	Cole Information Services
2004	WILLIAM CHING	Cole Information Services

3825 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	ANITA LEE	Cole Information Services
2014	ANITA LEE	Cole Information Services
2009	ARMANDO TREJO	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	TREJOArmando	Haines Company, Inc.
2004	ARMANDO TREJO	Cole Information Services
1999	ARMANDO TREJO	Cole Information Services

3830 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DHARMARAJ SUBRAMANIAN	Cole Information Services
2014	DHARMA SUBRAMANIAN	Cole Information Services
2009	ARUNA GOBALAN	Cole Information Services
2004	PEDRO CRESPO	Cole Information Services
1999	ARUNA GOBALAN	Cole Information Services

3831 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ISMAEL BASCO	Cole Information Services
2009	ISMAEL BASCO	Cole Information Services
2005	BASCOMaryanne B	Haines Company, Inc.
2004	ISMAEL BASCO	Cole Information Services
1999	ISMAEL BASCO	Cole Information Services

3837 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	KENNY SMIT	Cole Information Services
2014	ALISON TURNER	Cole Information Services
2009	ALISON TURNER	Cole Information Services
2005	OTURNERA	Haines Company, Inc.
	OTURNER A	Haines Company, Inc.
2004	A TURNER	Cole Information Services
1999	ALISON TURNER	Cole Information Services

3840 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	HEATHER DAVIDS	Cole Information Services
2014	FRANK DELGADO	Cole Information Services
2009	FRANK DELGADO	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	FRANK DELGADO	Cole Information Services
1999	FRANK DELGADO	Cole Information Services

3843 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	LAWRENCE ROUEN	Cole Information Services
2014	JAIME AMEZCUA	Cole Information Services
2009	LAWRENCE ROUEN	Cole Information Services
2005	OROUEN Law rence	Haines Company, Inc.
2004	LAWRENCE ROUEN	Cole Information Services
1999	LAWRENCE ROUEN	Cole Information Services

3849 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	LANCE ANSTED	Cole Information Services
2014	SAMANTHA AGUERO	Cole Information Services
2009	JEFFREY PUTZKE	Cole Information Services
2004	MARK BAKER	Cole Information Services
1999	JEFFREY PUTZKE	Cole Information Services

3855 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	YOLANDA MADRID	Cole Information Services
2009	JOSEPH MONTOYA	Cole Information Services
2005	OMONTOYA.Joseph	Haines Company, Inc.
2004	JOSEPH MONTOYA	Cole Information Services
1999	JOSEPH MONTOYA	Cole Information Services

3861 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	STEPHEN CHIN	Cole Information Services
2014	STEPHEN CHIN	Cole Information Services
2009	STEPHEN CHIN	Cole Information Services
2005	OUKENAAnthony	Haines Company, Inc.
2004	ANTHONY UKENA	Cole Information Services

FINDINGS

3867 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	DAVID GRANDSTAFF	Cole Information Services
2014	DAVID GRANDSTAFF	Cole Information Services
2009	DAVID GRANDSTAFF	Cole Information Services
2004	DAVID GRANDSTAFF	Cole Information Services
1999	DAVID GRANDSTAFF	Cole Information Services

3987 GRESHAM LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	GRANDSTAFFDavid A	Haines Company, Inc.

HEBRON CIR

111 HEBRON CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JOSEPH RODRIGUEZ	Cole Information Services
2014	JOSEPH RODRIGUEZ	Cole Information Services
2009	EDWARD MINAEI	Cole Information Services
1999	EDWARD MINAEI	Cole Information Services

LANFRANCO CIR

101 LANFRANCO CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	SANGAY MENGI	Cole Information Services
2014	TAMMY TROVATTEN	Cole Information Services
2009	GINO BRUNACIM	Cole Information Services
2004	PARAGON NETWORKS INTERNA TNL	Cole Information Services
	BILL MONROE	Cole Information Services
1999	GINO BRUNACIM	Cole Information Services

111 LANFRANCO CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	VAIBHAV SHAH	Cole Information Services
2014	EDGAR MENOR	Cole Information Services
2009	EDGAR MENOR	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	MENOR Edgar	Haines Company, Inc.
2004	EDGAR MENOR	Cole Information Services
1999	EDGAR MENOR	Cole Information Services

121 LANFRANCO CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ROLANDO MONTEMAYOR	Cole Information Services
2009	ELSA MONTEMAYOR	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	ELSA MONTEMAYOR	Cole Information Services

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
101 LANFRANCO CIR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
111 HEBRON CIR	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
111 LANFRANCO CIR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
111 LANFRANCO CIR	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
121 LANFRANCO CIR	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2 ELIJAH PL	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3 ELIJAH PL	2017, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3800 BAYOU WAY	2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3813 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3813 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3819 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3819 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3824 GRESHAM LN	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3825 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3825 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3830 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3831 GRESHAM LN	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3831 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3837 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

FINDINGS

Address Researched

Address Not Identified in Research Source

3837 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3840 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3843 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3843 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3849 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3855 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3855 GRESHAM LN	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3861 GRESHAM LN	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3861 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3867 GRESHAM LN	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
3987 GRESHAM LN	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
8 ELIJAH PL	2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
9 ELIJAH PL	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

3880 Bayou Way

Address Not Identified in Research Source

2017, 2014, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

APPENDIX G
DATABASE REPORT

Agricultural Property

3880 Bayou Way
SACRAMENTO, CA 95835

Inquiry Number: 7093394.2s
August 22, 2022

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	34
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-13
Physical Setting Source Map Findings	A-15
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3880 BAYOU WAY
SACRAMENTO, CA 95835

COORDINATES

Latitude (North): 38.6655210 - 38° 39' 55.87"
Longitude (West): 121.5540570 - 121° 33' 14.60"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 625800.2
UTM Y (Meters): 4280445.0
Elevation: 17 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 12021657 TAYLOR MONUMENT, CA
Version Date: 2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140621
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 3880 BAYOU WAY
 SACRAMENTO, CA 95835

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	KAWEAH CONSTRUCTION	4401 N BAYOU WAY	HAZNET, HWTS	Lower	1 ft.
A2	KAWEAH CONSTRUCTION	4401 N BAYOU WAY	HAZNET, HWTS	Lower	1 ft.
B3	MSA: METROAIR PARK S	4565 W BAYOU RD	Sacramento Co. ML	Lower	232, 0.044, WNW
B4	MSA: STORM DRAIN PUM	4565 W BAYOU RD	AST	Lower	232, 0.044, WNW
5	AT&T MOBILITY - (USI	4690 BAYOU WAY	Sacramento Co. ML, CERS	Lower	395, 0.075, WNW
6	INT'L AIRPORT - WATE	5036 BAYOU WAY	Sacramento Co. ML	Lower	774, 0.147, WNW
C7	WEST LAKESIDE MIDDLE	SNELLING LANE/WESTLA	ENVIROSTOR, SCH	Higher	1194, 0.226, South
C8	WEST LAKESIDE MIDDLE	WESTLAKE PARKWAY/SNE	ENVIROSTOR, SCH	Higher	1226, 0.232, SSE
9	NORTHBOROUGH ELEMENT	BANFIELD DRIVE/MINDE	ENVIROSTOR, SCH	Higher	2568, 0.486, WSW
10	WESTLAKE ELEMENTARY	DEL PASO ROAD/WYNDVI	ENVIROSTOR, SCH	Higher	2725, 0.516, SSE
11	NATOMAS MIDDLE SCHOO	3700 DEL PASO RD	ENVIROSTOR, SCH, SWEEPS UST, CA FID UST	Higher	3281, 0.621, SSE
12	PROPOSED TERRACE PAR	GREG THATCH CIRCLE A	ENVIROSTOR, SCH	Higher	5168, 0.979, NE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases
Sacramento Co. CS..... Toxic Site Clean-Up List

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

HIST Cal-Sites.....	Historical Calsites Database
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE.....	CERS HAZ WASTE
US CDL.....	National Clandestine Laboratory Register
AQUEOUS FOAM.....	Former Fire Training Facility Assessments Listing
PFAS.....	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST.....	SWEEPS UST Listing
HIST UST.....	Hazardous Substance Storage Container Database
CERS TANKS.....	California Environmental Reporting System (CERS) Tanks
CA FID UST.....	Facility Inventory Database

Local Land Records

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information
DEED.....	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
ECHO.....	Enforcement & Compliance History Information
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
DRYCLEANERS.....	Cleaner Facilities
EML.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
CERS.....	CERS
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
MINES MRDS.....	Mineral Resources Data System
HWTS.....	Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/25/2022 has revealed that there are 6 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>WEST LAKESIDE MIDDLE</i> Facility Id: 60000698 Status: No Action Required	<i>SNELLING LANE/WESTLA</i>	<i>S 1/8 - 1/4 (0.226 mi.)</i>	<i>C7</i>	<i>16</i>
<i>WEST LAKESIDE MIDDLE</i> Facility Id: 34650004 Status: No Further Action	<i>WESTLAKE PARKWAY/SNE</i>	<i>SSE 1/8 - 1/4 (0.232 mi.)</i>	<i>C8</i>	<i>18</i>
<i>NORTHBOROUGH ELEMENT</i> Facility Id: 34010020	<i>BANFIELD DRIVE/MINDE</i>	<i>WSW 1/4 - 1/2 (0.486 mi.)</i>	<i>9</i>	<i>21</i>

EXECUTIVE SUMMARY

Status: No Action Required

WESTLAKE ELEMENTARY Facility Id: 34010019 Status: Inactive - Withdrawn	DEL PASO ROAD/WYNDVI	SSE 1/2 - 1 (0.516 mi.)	10	24
NATOMAS MIDDLE SCHOO Facility Id: 34010009 Status: No Further Action	3700 DEL PASO RD	SSE 1/2 - 1 (0.621 mi.)	11	27
PROPOSED TERRACE PAR Facility Id: 60000655 Status: No Further Action	GREG THATCH CIRCLE A	NE 1/2 - 1 (0.979 mi.)	12	31

Lists of state and tribal registered storage tanks

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MSA: STORM DRAIN PUM Database: AST, Date of Government Version: 07/06/2016	4565 W BAYOU RD	WNW 0 - 1/8 (0.044 mi.)	B4	13

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the. environment they pose.

A review of the SCH list, as provided by EDR, and dated 04/25/2022 has revealed that there are 2 SCH sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WEST LAKESIDE MIDDLE Facility Id: 60000698 Status: No Action Required	SNELLING LANE/WESTLA	S 1/8 - 1/4 (0.226 mi.)	C7	16
WEST LAKESIDE MIDDLE Facility Id: 34650004 Status: No Further Action	WESTLAKE PARKWAY/SNE	SSE 1/8 - 1/4 (0.232 mi.)	C8	18

EXECUTIVE SUMMARY

Other Ascertainable Records

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2019 has revealed that there are 2 HAZNET sites within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KAWEAH CONSTRUCTION GEPaid: CAC002189409	4401 N BAYOU WAY	0 - 1/8 (0.000 mi.)	A1	9
KAWEAH CONSTRUCTION GEPaid: CAC002598601	4401 N BAYOU WAY	0 - 1/8 (0.000 mi.)	A2	10

Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 05/04/2022 has revealed that there are 3 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

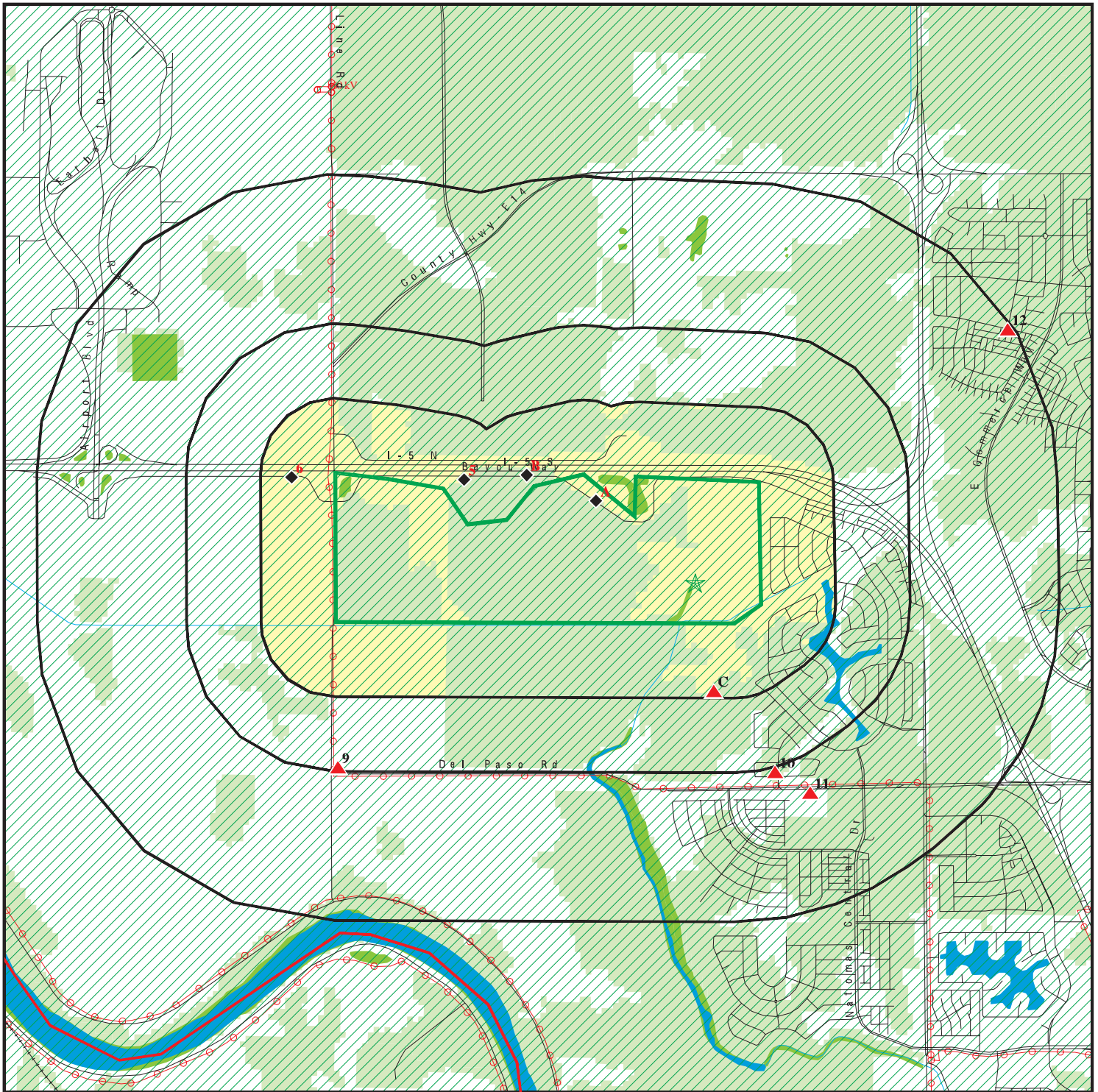
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MSA: METROAIR PARK S	4565 W BAYOU RD	WNW 0 - 1/8 (0.044 mi.)	B3	12
AT&T MOBILITY - (USI	4690 BAYOU WAY	WNW 0 - 1/8 (0.075 mi.)	5	13
INT'L AIRPORT - WATE	5036 BAYOU WAY	WNW 1/8 - 1/4 (0.147 mi.)	6	16

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

<u>Site Name</u>	<u>Database(s)</u>
CITY OF SACRAMENTO	Sacramento Co. CS
SMUD - TRANSFORMER	Sacramento Co. CS
SACSMF RTR	Sacramento Co. CS
TANK MA7	Sacramento Co. CS
METRO BURN PIT	Sacramento Co. CS

OVERVIEW MAP - 7093394.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Power transmission lines

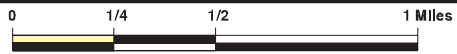
Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

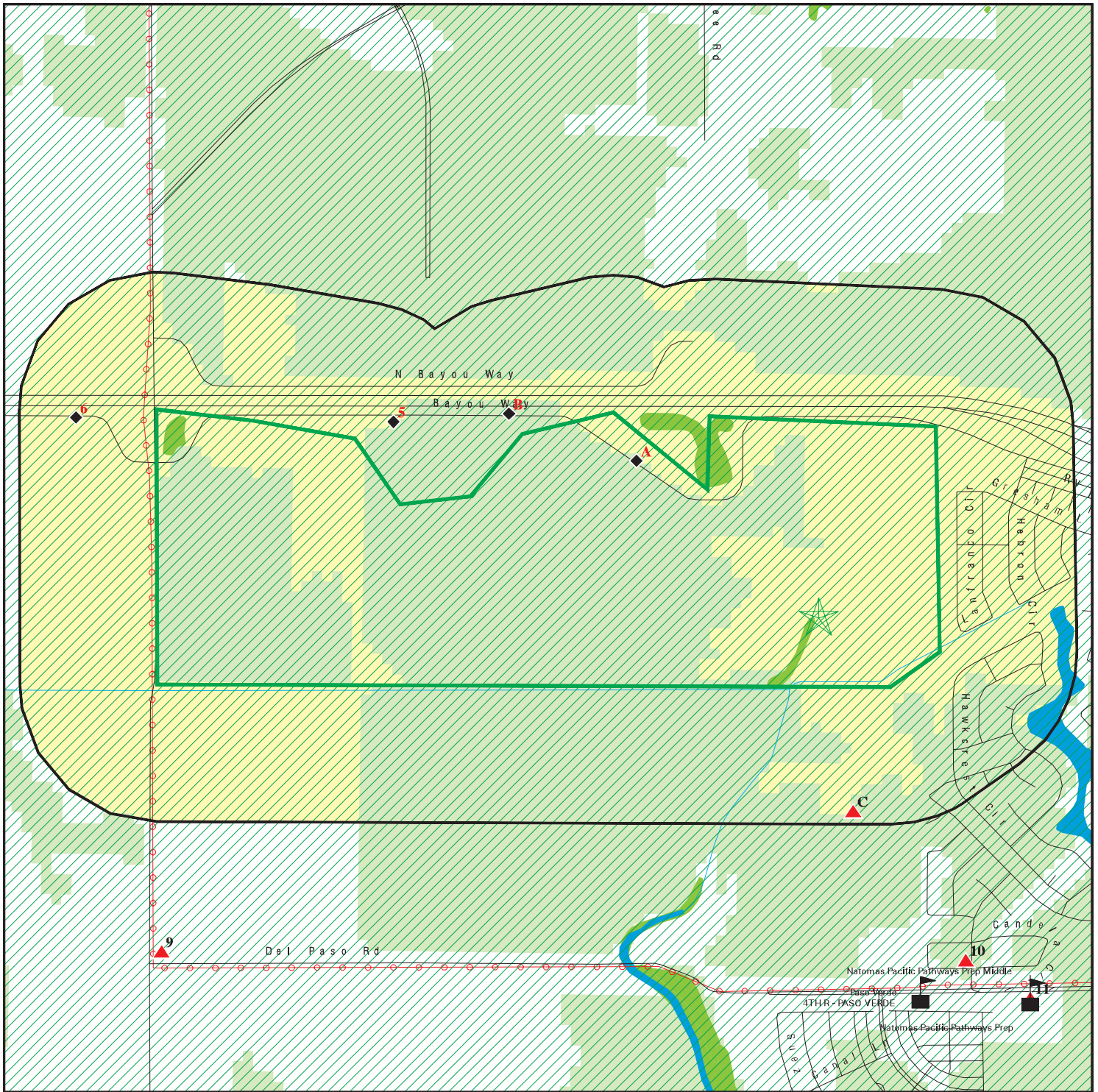
















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Agricultural Property
 ADDRESS: 3880 Bayou Way
 SACRAMENTO CA 95835
 LAT/LONG: 38.665521 / 121.554057

CLIENT: Env. Inv. Services, Inc.
 CONTACT: Peter Littman
 INQUIRY #: 7093394.2s
 DATE: August 22, 2022 1:49 pm

DETAIL MAP - 7093394.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Agricultural Property
 ADDRESS: 3880 Bayou Way
 SACRAMENTO CA 95835
 LAT/LONG: 38.665521 / 121.554057

CLIENT: Env. Inv. Services, Inc.
 CONTACT: Peter Littman
 INQUIRY #: 7093394.2s
 DATE: August 22, 2022 1:50 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>Lists of state- and tribal (Superfund) equivalent sites</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
ENVIROSTOR	1.000		0	2	1	3	NR	6
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Sacramento Co. CS	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	2	NR	NR	NR	2
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		2	NR	NR	NR	NR	2
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
Sacramento Co. ML	0.250		2	1	NR	NR	NR	3
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
--------	-------	--	---	----	----	----	----	---

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	5	5	1	3	0	14

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 KAWEAH CONSTRUCTION CO
4401 N BAYOU WAY
< 1/8 SACRAMENTO, CA 95835
1 ft.

HAZNET S112902388
HWTS N/A

Site 1 of 2 in cluster A

Relative:
Lower
Actual:
15 ft.

HAZNET:
Name: KAWEAH CONSTRUCTION CO
Address: 4401 N BAYOU WAY
Address 2: Not reported
City,State,Zip: SACRAMENTO, CA 958359504
Contact: BRETT DITZLER
Telephone: 9163751833
Mailing Name: Not reported
Mailing Address: 3960 INDUSTRIAL BLVD STE 300

Year: 2006
Gepaid: CAC002189409
TSD EPA ID: CAD982446874
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H01 - Transfer Station
Tons: 1.4595

Additional Info:

Year: 2006
Gen EPA ID: CAC002189409

Shipment Date: 20060410
Creation Date: 8/4/2006 18:30:48
Receipt Date: 20060410
Manifest ID: 21687693
Trans EPA ID: CAD982413262
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSD EPA ID: CAD982446874
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
TSD EPA ID: CAD982446874
TSD Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 1.4595
Waste Quantity: 350
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:

Name: KAWEAH CONSTRUCTION CO
Address: 4401 N BAYOU WAY
Address 2: Not reported
City,State,Zip: SACRAMENTO, CA 95835
EPA ID: CAC002189409

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAWEAH CONSTRUCTION CO (Continued)

S112902388

Inactive Date: 10/04/2006
Create Date: 04/06/2006
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 3960 INDUSTRIAL BLVD STE 300
Mailing Address 2: Not reported
Mailing City,State,Zip: WEST SACRAMENTO, CA 95691
Owner Name: KAWEAH CONSTRUCTION CO
Owner Address: 3960 INDUSTRIAL BLVD STE 300
Owner Address 2: Not reported
Owner City,State,Zip: WEST SACRAMENTO, CA 95691
Contact Name: BRETT DITZLER
Contact Address: 3960 INDUSTRIAL BLVD STE 300
Contact Address 2: Not reported
City,State,Zip: WEST SACRAMENTO, CA 95691
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 38.672896
Longitude: -121.576482

A2

**KAWEAH CONSTRUCTION CO
4401 N BAYOU WAY
SACRAMENTO, CA 95835**

**HAZNET S112950309
HWTS N/A**

**< 1/8
1 ft.**

Site 2 of 2 in cluster A

**Relative:
Lower**

HAZNET:
Name: KAWEAH CONSTRUCTION CO
Address: 4401 N BAYOU WAY
Address 2: Not reported
City,State,Zip: SACRAMENTO, CA 958359504
Contact: BREET BITZLER
Telephone: 9164164922
Mailing Name: Not reported
Mailing Address: 3960 INDUSTRIAL BLVD STE 300

Year: 2005
Gepaid: CAC002598601
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: -
Tons: 6.255

Year: 2005
Gepaid: CAC002598601
TSD EPA ID: CAT080033681
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 0.1

**Actual:
15 ft.**

Additional Info:

Year: 2005
Gen EPA ID: CAC002598601

Shipment Date: 20051220

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAWEAH CONSTRUCTION CO (Continued)

S112950309

Creation Date: 3/14/2006 16:16:17
Receipt Date: Not reported
Manifest ID: 24828403
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080013352
Trans Name: DEMENNO/KERDOON
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 6.255
Waste Quantity: 1500
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051220
Creation Date: 3/14/2007 18:30:24
Receipt Date: 20051227
Manifest ID: 24828402
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAT080033681
Trans Name: D / K - ENVIRONMENTAL
TSDf Alt EPA ID: CAT080033681
TSDf Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:

Name: KAWEAH CONSTRUCTION CO
Address: 4401 N BAYOU WAY
Address 2: Not reported
City,State,Zip: SACRAMENTO, CA 95835
EPA ID: CAC002598601
Inactive Date: 06/18/2006
Create Date: 12/19/2005
Last Act Date: Not reported
Mailing Name: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KAWEAH CONSTRUCTION CO (Continued)

S112950309

Mailing Address: 3960 INDUSTRIAL BLVD STE 300
 Mailing Address 2: Not reported
 Mailing City,State,Zip: WEST SACRAMENTO, CA 956915023
 Owner Name: LYLES DIVERSIFIED
 Owner Address: 3960 INDUSTRIAL BLVD STE 300
 Owner Address 2: Not reported
 Owner City,State,Zip: WEST SACRAMENTO, CA 956915023
 Contact Name: BREET BITZLER
 Contact Address: 3960 INDUSTRIAL BLVD STE 300
 Contact Address 2: Not reported
 City,State,Zip: WEST SACRAMENTO, CA 956915023
 Facility Status: Inactive
 Facility Type: TEMPORARY
 Category: STATE
 Latitude: 38.672896
 Longitude: -121.576482

B3
WNW
< 1/8
0.044 mi.
232 ft.

MSA: METROAIR PARK STORM DRAIN PUMP (D49)
4565 W BAYOU RD
SACRAMENTO, CA 95835

Sacramento Co. ML

S125093049
N/A

Site 1 of 2 in cluster B

Relative:
Lower
Actual:
15 ft.

Sacramento Co. ML:
 Name: MSA: METROAIR PARK STORM DRAIN PUMP (D49)
 Address: 4565 W BAYOU RD
 City,State,Zip: SACRAMENTO, CA 95835
 Facility Id: Not reported
 Facility Status: Not reported
 FD: Not reported
 Billing Codes BP: A
 Billing Codes UST: Not reported
 WG Bill Code: Not reported
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 AST Bill Code: Not reported
 CALARP Bill Code: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

B4
WNW
 < 1/8
 0.044 mi.
 232 ft.

MSA: STORM DRAIN PUMP D-49
4565 W BAYOU RD
SACRAMENTO, CA

Site 2 of 2 in cluster B

AST **S108195687**
N/A

Relative:
Lower

Actual:
 15 ft.

AST:
 Name: MSA: STORM DRAIN PUMP D-49
 Address: 4565 W BAYOU RD
 City/Zip: SACRAMENTO,
 Certified Unified Program Agencies: Sacramento
 Owner: Not reported
 Total Gallons: 2,000
 CERSID: Not reported
 Facility ID: Not reported
 Business Name: Not reported
 Phone: Not reported
 Fax: Not reported
 Mailing Address: Not reported
 Mailing Address City: Not reported
 Mailing Address State: Not reported
 Mailing Address Zip Code: Not reported
 Operator Name: Not reported
 Operator Phone: Not reported
 Owner Phone: Not reported
 Owner Mail Address: Not reported
 Owner State: Not reported
 Owner Zip Code: Not reported
 Owner Country: Not reported
 Property Owner Name: Not reported
 Property Owner Phone: Not reported
 Property Owner Mailing Address: Not reported
 Property Owner City: Not reported
 Property Owner Stat : Not reported
 Property Owner Zip Code: Not reported
 Property Owner Country: Not reported
 EPAID: Not reported

5
WNW
 < 1/8
 0.075 mi.
 395 ft.

AT&T MOBILITY - (USID20672)
4690 BAYOU WAY
SACRAMENTO, CA 95835

Sacramento Co. ML **S125092879**
CERS **N/A**

Relative:
Lower

Actual:
 15 ft.

Sacramento Co. ML:
 Name: AT & T MOBILITY - USID20672
 Address: 4690 BAYOU WAY
 City,State,Zip: SACRAMENTO, CA 95835
 Facility Id: Not reported
 Facility Status: Not reported
 FD: Not reported
 Billing Codes BP: I
 Billing Codes UST: Not reported
 WG Bill Code: Not reported
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AT&T MOBILITY - (USID20672) (Continued)

S125092879

UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: Not reported
UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
AST Bill Code: Not reported
CALARP Bill Code: Not reported

CERS:

Name: AT&T MOBILITY - (USID20672)
Address: 4690 BAYOU WAY
City,State,Zip: SACRAMENTO, CA 95835
Site ID: 593961
CERS ID: 10814581
CERS Description: Chemical Storage Facilities

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection report emailed to Phil Diaz, Environmental Site Manager, at PD7683@att.com due to COVID-19. Batteries were stolen in March 2020 per Phil Diaz, Environmental Site Manager. The latest CERS submittal lists that there were no hazardous materials on site. No violations observed at the time of inspection.
Eval Division: Sacramento County Env Management Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:

Affiliation Type Desc: Parent Corporation
Entity Name: AT&T Mobility
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 75202
Affiliation Phone: (214) 464-1712,

Affiliation Type Desc: Environmental Contact
Entity Name: AT&T EH&S Hotline - Option #1
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AT&T MOBILITY - (USID20672) (Continued)

S125092879

Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75202
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 308 S. Akard St., 17th Floor
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75202
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jeremy McGrue
Entity Title: National EPCRA Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: AT&T Mobility
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (800) 566-9347,

Affiliation Type Desc: CUPA District
Entity Name: Sacramento County Environmental Management Departm
Entity Title: Not reported
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95670
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Document Preparer
Entity Name: Peter Burnell, Sigma Consultants, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

6
WNW
1/8-1/4
0.147 mi.
774 ft.

INT'L AIRPORT - WATER TANK SITE
5036 BAYOU WAY
SACRAMENTO, CA 95837

Sacramento Co. ML

S108484586
N/A

Relative:
Lower
Actual:
16 ft.

Sacramento Co. ML:
 Name: INT'L AIRPORT - WATER TANK SITE
 Address: 5036 BAYOU WAY
 City,State,Zip: SACRAMENTO, CA 95837
 Facility Id: Not reported
 Facility Status: Not reported
 FD: Not reported
 Billing Codes BP: A
 Billing Codes UST: Not reported
 WG Bill Code: Not reported
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 AST Bill Code: Not reported
 CALARP Bill Code: Not reported

C7
South
1/8-1/4
0.226 mi.
1194 ft.

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL EXPANSION
SNELLING LANE/WESTLAKE PARKWAY
SACRAMENTO, CA 95835

ENVIROSTOR
SCH

S118757152
N/A

Site 1 of 2 in cluster C

Relative:
Higher
Actual:
17 ft.

ENVIROSTOR:
 Name: WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL EXPANSION SITE
 Address: SNELLING LANE/WESTLAKE PARKWAY
 City,State,Zip: SACRAMENTO, CA 95835
 Facility ID: 60000698
 Status: No Action Required
 Status Date: 10/19/2007
 Site Code: 104593
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 31.2
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Not reported
 Supervisor: Mark Malinowski
 Division Branch: Northern California Schools & Santa Susana
 Assembly: 07
 Senate: 06
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL EXPANSION SITE (Continued)

S118757152

Funding: School District
Latitude: 38.66036
Longitude: -121.5529
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: West Lakeside Elementary School Expansion
Alias Type: Former Project ID
Alias Name: 104593
Alias Type: Project Code (Site Code)
Alias Name: 60000698
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/19/2007
Comments: Based on information provided in the Phase I and PEA sampling results from the original 10-acre site (104464), DTSC issued a No Action determination for this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/24/2008
Comments: CRU signed by UC and project closed out.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL EXPANSION SITE
Address: SNELLING LANE/WESTLAKE PARKWAY
City,State,Zip: SACRAMENTO, CA 95835
Facility ID: 60000698
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 31.2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL EXPANSION SITE (Continued)

S118757152

Site Code: 104593
 Assembly: 07
 Senate: 06
 Special Program Status: Not reported
 Status: No Action Required
 Status Date: 10/19/2007
 Restricted Use: NO
 Funding: School District
 Latitude: 38.66036
 Longitude: -121.5529
 APN: NONE SPECIFIED
 Past Use: AGRICULTURAL - ROW CROPS
 Potential COC: NONE SPECIFIED, No Contaminants found
 Confirmed COC: No Contaminants found
 Potential Description: NMA
 Alias Name: West Lakeside Elementary School Expansion
 Alias Type: Former Project ID
 Alias Name: 104593
 Alias Type: Project Code (Site Code)
 Alias Name: 60000698
 Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Phase 1
 Completed Date: 10/19/2007
 Comments: Based on information provided in the Phase I and PEA sampling results from the original 10-acre site (104464), DTSC issued a No Action determination for this site.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Closeout Memo
 Completed Date: 03/24/2008
 Comments: CRU signed by UC and project closed out.

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

C8
SSE
 1/8-1/4
 0.232 mi.
 1226 ft.

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE
WESTLAKE PARKWAY/SNELLING LANE
SACRAMENTO, CA 95835

ENVIROSTOR **S106895154**
SCH **N/A**

Site 2 of 2 in cluster C

Relative:
Higher
Actual:
18 ft.

ENVIROSTOR:
 Name: WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE
 Address: WESTLAKE PARKWAY/SNELLING LANE
 City,State,Zip: SACRAMENTO, CA 95835
 Facility ID: 34650004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE (Continued)

S106895154

Status: No Further Action
Status Date: 07/19/2006
Site Code: 104464
Site Type: School Investigation
Site Type Detailed: School
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 07
Senate: 06
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.66027
Longitude: -121.5527
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Chlordane Total Chromium (1:6 ratio Cr VI:Cr III DDD DDE DDT
Endrin Lead Silver Toxaphene
Confirmed COC: 30021-NO 30023-NO 30001-NO 30004-NO 30005-NO 30006-NO 30007-NO
30008-NO 30010-NO 30013-NO
Potential Description: SOIL
Alias Name: NATOMAS USD-WEST LAKESIDE ES SITE
Alias Type: Alternate Name
Alias Name: West Lakeside Elementary School Site
Alias Type: Alternate Name
Alias Name: 104464
Alias Type: Project Code (Site Code)
Alias Name: 34650004
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/19/2006
Comments: DTSC approved the PEA Report with a no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE (Continued)

S106895154

Completed Date: 02/08/2006
Comments: PEA WP approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/25/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE
Address: WESTLAKE PARKWAY/SNELLING LANE
City,State,Zip: SACRAMENTO, CA 95835
Facility ID: 34650004
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 104464
Assembly: 07
Senate: 06
Special Program Status: Not reported
Status: No Further Action
Status Date: 07/19/2006
Restricted Use: NO
Funding: School District
Latitude: 38.66027
Longitude: -121.5527
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic, Chlordane, Total Chromium (1:6 ratio Cr VI:Cr III, DDD, DDE, DDT, Endrin, Lead, Silver, Toxaphene
Confirmed COC: 30021-NO, 30023-NO, 30001-NO, 30004-NO, 30005-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 30013-NO
Potential Description: SOIL
Alias Name: NATOMAS USD-WEST LAKESIDE ES SITE
Alias Type: Alternate Name
Alias Name: West Lakeside Elementary School Site
Alias Type: Alternate Name

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST LAKESIDE MIDDLE SCHOOL/HIGH SCHOOL SITE (Continued)

S106895154

Alias Name: 104464
Alias Type: Project Code (Site Code)
Alias Name: 34650004
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/19/2006
Comments: DTSC approved the PEA Report with a no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 02/08/2006
Comments: PEA WP approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/25/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

9
WSW
1/4-1/2
0.486 mi.
2568 ft.

**NORTHBOROUGH ELEMENTARY SCHOOL
BANFIELD DRIVE/MINDEN WAY
SACRAMENTO, CA 95834**

**ENVIROSTOR S118756776
SCH N/A**

**Relative:
Higher
Actual:
17 ft.**

ENVIROSTOR:
Name: NORTHBOROUGH ELEMENTARY SCHOOL
Address: BANFIELD DRIVE/MINDEN WAY
City,State,Zip: SACRAMENTO, CA 95834
Facility ID: 34010020
Status: No Action Required

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTHBOROUGH ELEMENTARY SCHOOL (Continued)

S118756776

Status Date: 08/20/2002
Site Code: 104286
Site Type: School Investigation
Site Type Detailed: School
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Kamili Siglowide
Supervisor: Juan Koponen
Division Branch: Northern California Schools & Santa Susana
Assembly: 07
Senate: 06
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.65665
Longitude: -121.5762
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: NATOMAS USD
Alias Type: Alternate Name
Alias Name: NATOMAS USD-NORTHBOROUGH ELEM SCHOOL
Alias Type: Alternate Name
Alias Name: NORTHBOROUGH ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 104286
Alias Type: Project Code (Site Code)
Alias Name: 34010020
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/12/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/26/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTHBOROUGH ELEMENTARY SCHOOL (Continued)

S118756776

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: NORTHBOROUGH ELEMENTARY SCHOOL
Address: BANFIELD DRIVE/MINDEN WAY
City,State,Zip: SACRAMENTO, CA 95834
Facility ID: 34010020
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Kamili Siglowide
Supervisor: Juan Koponen
Division Branch: Northern California Schools & Santa Susana
Site Code: 104286
Assembly: 07
Senate: 06
Special Program Status: Not reported
Status: No Action Required
Status Date: 08/20/2002
Restricted Use: NO
Funding: School District
Latitude: 38.65665
Longitude: -121.5762
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: NATOMAS USD
Alias Type: Alternate Name
Alias Name: NATOMAS USD-NORTHBOROUGH ELEM SCHOOL
Alias Type: Alternate Name
Alias Name: NORTHBOROUGH ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 104286
Alias Type: Project Code (Site Code)
Alias Name: 34010020
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

NORTHBOROUGH ELEMENTARY SCHOOL (Continued)

S118756776

Completed Sub Area Name: Not reported
 Completed Document Type: Site Inspections/Visit (Non LUR)
 Completed Date: 08/12/2002
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Closeout Memo
 Completed Date: 09/26/2002
 Comments: Not reported

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

10
SSE
1/2-1
0.516 mi.
2725 ft.

WESTLAKE ELEMENTARY SCHOOL
DEL PASO ROAD/WYNDVIEW WAY
SACRAMENTO, CA 95834

ENVIROSTOR S105954549
SCH N/A

Relative:
Higher
Actual:
21 ft.

ENVIROSTOR:
 Name: WESTLAKE ELEMENTARY SCHOOL
 Address: DEL PASO ROAD/WYNDVIEW WAY
 City,State,Zip: SACRAMENTO, CA 95834
 Facility ID: 34010019
 Status: Inactive - Withdrawn
 Status Date: 01/22/2013
 Site Code: 104330
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 10.5
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Not reported
 Supervisor: Juan Koponen
 Division Branch: Northern California Schools & Santa Susana
 Assembly: 07
 Senate: 06
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: School District
 Latitude: 38.65642
 Longitude: -121.5491
 APN: NONE SPECIFIED
 Past Use: AGRICULTURAL - ROW CROPS
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: NATOMAS USD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTLAKE ELEMENTARY SCHOOL (Continued)

S105954549

Alias Type: Alternate Name
Alias Name: NATOMAS USD-WESTLAKE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: WESTLAKE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 104330
Alias Type: Project Code (Site Code)
Alias Name: 34010019
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/10/2003
Comments: Imput date in all fields to clear deliverable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/22/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: WESTLAKE ELEMENTARY SCHOOL
Address: DEL PASO ROAD/WYNDVIEW WAY
City,State,Zip: SACRAMENTO, CA 95834
Facility ID: 34010019
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Juan Koponen
Division Branch: Northern California Schools & Santa Susana
Site Code: 104330

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTLAKE ELEMENTARY SCHOOL (Continued)

S105954549

Assembly: 07
Senate: 06
Special Program Status: Not reported
Status: Inactive - Withdrawn
Status Date: 01/22/2013
Restricted Use: NO
Funding: School District
Latitude: 38.65642
Longitude: -121.5491
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: NATOMAS USD
Alias Type: Alternate Name
Alias Name: NATOMAS USD-WESTLAKE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: WESTLAKE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 104330
Alias Type: Project Code (Site Code)
Alias Name: 34010019
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/10/2003
Comments: Input date in all fields to clear deliverable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/22/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

11
SSE
1/2-1
0.621 mi.
3281 ft.

NATOMAS MIDDLE SCHOOL
3700 DEL PASO RD
SACRAMENTO, CA 95834

ENVIROSTOR S101628547
SCH N/A
SWEEPS UST
CA FID UST

Relative:
Higher
Actual:
19 ft.

ENVIROSTOR:
Name: NATOMAS MIDDLE SCHOOL
Address: 3710 DEL PASO BOULEVARD
City,State,Zip: SACRAMENTO, CA 95834
Facility ID: 34010009
Status: No Further Action
Status Date: 01/08/2001
Site Code: 104129
Site Type: School Investigation
Site Type Detailed: School
Acres: 10
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Charles Ridenour
Division Branch: Northern California Schools & Santa Susana
Assembly: 07
Senate: 06
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.6561
Longitude: -121.5563
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Chlordane DDD DDE DDT Lead
Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO
Potential Description: SOIL
Alias Name: NATOMAS MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: NATOMAS UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: NATOMAS USD-NATOMAS MS/VCA
Alias Type: Alternate Name
Alias Name: 104129
Alias Type: Project Code (Site Code)
Alias Name: 34010009
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/08/2001
Comments: DTSC Approved the PEA with a no further action determination. DTSC's determination is based on a 1-3-2001 letter from NUSD indicating that all prbuc participation requirements have been met.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/30/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NATOMAS MIDDLE SCHOOL (Continued)

S101628547

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/02/2001
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the PEA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/05/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: NATOMAS MIDDLE SCHOOL
Address: 3710 DEL PASO BOULEVARD
City,State,Zip: SACRAMENTO, CA 95834
Facility ID: 34010009
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Charles Ridenour
Division Branch: Northern California Schools & Santa Susana
Site Code: 104129
Assembly: 07
Senate: 06
Special Program Status: Not reported
Status: No Further Action
Status Date: 01/08/2001
Restricted Use: NO
Funding: School District
Latitude: 38.6561
Longitude: -121.5563
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic, Chlordane, DDD, DDE, DDT, Lead
Confirmed COC: 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO
Potential Description: SOIL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NATOMAS MIDDLE SCHOOL (Continued)

S101628547

Alias Name: NATOMAS MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: NATOMAS UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: NATOMAS USD-NATOMAS MS/VCA
Alias Type: Alternate Name
Alias Name: 104129
Alias Type: Project Code (Site Code)
Alias Name: 34010009
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/08/2001
Comments: DTSC Approved the PEA with a no further action determination. DTSC's determination is based on a 1-3-2001 letter from NUSD indicating that all public participation requirements have been met.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/30/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/02/2001
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the PEA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/05/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:

Name: NATOMAS MIDDLE SCHOOL
Address: 3700 DEL PASO RD
City: SACRAMENTO
Status: Not reported
Comp Number: 22743
Number: Not reported
Board Of Equalization: 44-019117

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NATOMAS MIDDLE SCHOOL (Continued)

S101628547

Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 34-000-022743-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Name: NATOMAS MIDDLE SCHOOL
Address: 3700 DEL PASO RD
City: SACRAMENTO
Status: Not reported
Comp Number: 22743
Number: Not reported
Board Of Equalization: 44-019117
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 34-000-022743-000003
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 34000170
Regulated By: UTKNI
Regulated ID: 00022743
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 9166413307
Mail To: Not reported
Mailing Address: 1515 SPORTS DR
Mailing Address 2: Not reported
Mailing City,St,Zip: SACRAMENTO 95834
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

12
NE
1/2-1
0.979 mi.
5168 ft.

PROPOSED TERRACE PARK ELEMENTARY SCHOOL
GREG THATCH CIRCLE AND TRES PIEZAS WAY
SACRAMENTO, CA 95835

ENVIROSTOR S108649759
SCH N/A

Relative:
Higher
Actual:
23 ft.

ENVIROSTOR:

Name: PROPOSED TERRACE PARK ELEMENTARY SCHOOL
Address: GREG THATCH CIRCLE AND TRES PIEZAS WAY
City,State,Zip: SACRAMENTO, CA 95835
Facility ID: 60000655
Status: No Further Action
Status Date: 12/14/2007
Site Code: 104588
Site Type: School Investigation
Site Type Detailed: School
Acres: 15
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 07
Senate: 06
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.67922
Longitude: -121.5356
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Chlordane DDD DDE DDT Endrin
Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30010-NO 31000-NO
Potential Description: SOIL
Alias Name: 104588
Alias Type: Project Code (Site Code)
Alias Name: 60000655
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/30/2007
Comments: Received two hard copies of Report for Background Information for the upcoming scoping meeting on July 31, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/20/2007
Comments: Background information for PEA.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPOSED TERRACE PARK ELEMENTARY SCHOOL (Continued)

S108649759

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/29/2007
Comments: DTSC approved the PEA Workplan with no comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/30/2007
Comments: Sent fully executed agreement to district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/28/2007
Comments: Issued CRU memo.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: PROPOSED TERRACE PARK ELEMENTARY SCHOOL
Address: GREG THATCH CIRCLE AND TRES PIEZAS WAY
City,State,Zip: SACRAMENTO, CA 95835
Facility ID: 60000655
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 15
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 104588
Assembly: 07
Senate: 06
Special Program Status: Not reported
Status: No Further Action
Status Date: 12/14/2007
Restricted Use: NO
Funding: School District
Latitude: 38.67922
Longitude: -121.5356
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPOSED TERRACE PARK ELEMENTARY SCHOOL (Continued)

S108649759

Potential COC: Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Endrin
Confirmed COC: 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 31000-NO
Potential Description: SOIL
Alias Name: 104588
Alias Type: Project Code (Site Code)
Alias Name: 60000655
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/30/2007
Comments: Received two hard copies of Report for Background Information for the upcoming scoping meeting on July 31, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/20/2007
Comments: Background information for PEA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/29/2007
Comments: DTSC approved the PEA Workplan with no comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/30/2007
Comments: Sent fully executed agreement to district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/28/2007
Comments: Issued CRU memo.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SACRAMENTO	S106782284	CITY OF SACRAMENTO	I-5 AT SAN JUAN AVE		Sacramento Co. CS
SACRAMENTO	S106782282	SMUD - TRANSFORMER	ELVERTA/POWER LINE RD		Sacramento Co. CS
SACRAMENTO	S117679126	SACSMF RTR	SACRAMENTO METRO AIRPO		Sacramento Co. CS
SACRAMENTO	S117679127	TANK MA7	SACRAMENTO METRO AIRPO		Sacramento Co. CS
SACRAMENTO	S105245830	METRO BURN PIT	SACRAMENTO METRO AIRPO		Sacramento Co. CS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: 800-424-9346
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2022	Telephone: 843-820-7326
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/03/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/15/2022

Telephone: 202-267-2180

Date Made Active in Reports: 06/21/2022

Last EDR Contact: 06/15/2022

Number of Days to Update: 6

Next Scheduled EDR Contact: 10/03/2022

Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/25/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 04/26/2022

Telephone: 916-323-3400

Date Made Active in Reports: 07/15/2022

Last EDR Contact: 07/25/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 11/07/2022

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/25/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 04/26/2022

Telephone: 916-323-3400

Date Made Active in Reports: 07/15/2022

Last EDR Contact: 07/25/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 11/07/2022

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/09/2022

Source: Department of Resources Recycling and Recovery

Date Data Arrived at EDR: 05/09/2022

Telephone: 916-341-6320

Date Made Active in Reports: 07/29/2022

Last EDR Contact: 08/08/2022

Number of Days to Update: 81

Next Scheduled EDR Contact: 11/21/2022

Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-7439
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-8677
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 05/23/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/07/2022	Source: SWRCB
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-341-5851
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/07/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-327-7844
Date Made Active in Reports: 06/03/2022	Last EDR Contact: 06/09/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 06/09/2022
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-9424
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 07/19/2022
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/07/2022	Source: Department of Conservation
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-323-3836
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/15/2022	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 02/24/2022	Telephone: 916-341-6422
Date Made Active in Reports: 05/25/2022	Last EDR Contact: 08/16/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/21/2022
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/12/2022
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/21/2022
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/18/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/25/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/26/2022	Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 07/25/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-255-6504
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 08/09/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/05/2022	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 05/06/2022	Telephone: 415-252-3896
Date Made Active in Reports: 07/21/2022	Last EDR Contact: 07/26/2022
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/18/2022	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/19/2022	Telephone: 916-323-2514
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/25/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/26/2022	Telephone: 916-323-3400
Date Made Active in Reports: 08/11/2022	Last EDR Contact: 05/25/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/05/2022	Telephone: 202-564-6023
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/31/2022	Source: DTSC and SWRCB
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-323-3400
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 05/31/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2022	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/03/2022	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/19/2022	Telephone: 916-845-8400
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Quality Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 05/23/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/23/2022	Telephone: 866-480-1028
Date Made Active in Reports: 05/24/2022	Last EDR Contact: 05/23/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (415) 495-8895
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/17/2022	Telephone: 202-528-4285
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/08/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022	Source: EPA
Date Data Arrived at EDR: 02/03/2022	Telephone: 202-564-6023
Date Made Active in Reports: 02/25/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/11/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/15/2022	Telephone: 301-415-7169
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 91	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 06/02/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/23/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/02/2022
Date Data Arrived at EDR: 05/25/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 65

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/10/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 96

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 05/19/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020	Source: Department of Defense
Date Data Arrived at EDR: 01/11/2022	Telephone: 703-704-1564
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 07/07/2022
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022	Source: EPA
Date Data Arrived at EDR: 05/17/2022	Telephone: 800-385-6164
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/21/2022	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/21/2022	Telephone: 916-323-3400
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/09/2022	Telephone: 925-454-2361
Date Made Active in Reports: 05/17/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 8	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/01/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/20/2022
Date Data Arrived at EDR: 05/20/2022
Date Made Active in Reports: 08/09/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/12/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 42

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/19/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 83

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/15/2020	Telephone: 916-255-1136
Date Made Active in Reports: 07/02/2020	Last EDR Contact: 07/05/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/16/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2022	Telephone: 877-786-9427
Date Made Active in Reports: 08/03/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/16/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2022	Telephone: 916-323-3400
Date Made Active in Reports: 08/03/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2022	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/05/2022	Telephone: 916-440-7145
Date Made Active in Reports: 06/27/2022	Last EDR Contact: 07/05/2022
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/07/2022	Source: Department of Conservation
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-322-1080
Date Made Active in Reports: 06/01/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2022	Source: Department of Public Health
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-558-1784
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 05/31/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/09/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/09/2022	Telephone: 916-445-9379
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 81	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/31/2022	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 05/31/2022	Telephone: 916-445-4038
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 05/31/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/07/2022	Source: Department of Conservation
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-323-3836
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/11/2022	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/15/2022	Telephone: 916-445-3846
Date Made Active in Reports: 06/08/2022	Last EDR Contact: 06/09/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/07/2022	Source: Department of Conservation
Date Data Arrived at EDR: 03/08/2022	Telephone: 916-445-2408
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/03/2022
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 01/11/2019	Telephone: 510-567-6700
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 06/28/2022
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2022	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 06/29/2022	Telephone: 510-567-6700
Date Made Active in Reports: 07/21/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/22/2022	Source: Amador County Environmental Health
Date Data Arrived at EDR: 07/27/2022	Telephone: 209-223-6439
Date Made Active in Reports: 08/01/2022	Last EDR Contact: 07/26/2022
Number of Days to Update: 5	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

BUTTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2022
Date Data Arrived at EDR: 03/18/2022
Date Made Active in Reports: 06/08/2022
Number of Days to Update: 82

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2022
Date Data Arrived at EDR: 04/22/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 02/16/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 82

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INYO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 84

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 01/12/2022	Telephone: 626-458-6973
Date Made Active in Reports: 04/04/2022	Last EDR Contact: 07/06/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/13/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 03/21/2022	Telephone: 213-978-3800
Date Made Active in Reports: 06/15/2022	Last EDR Contact: 06/24/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/13/2022	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 03/21/2022	Telephone: 213-978-3800
Date Made Active in Reports: 06/15/2022	Last EDR Contact: 06/24/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021	Source: Community Health Services
Date Data Arrived at EDR: 07/09/2021	Telephone: 323-890-7806
Date Made Active in Reports: 09/29/2021	Last EDR Contact: 07/14/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 07/06/2022
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/12/2022
Number of Days to Update: 65	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/20/2022	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/21/2022	Telephone: 310-618-2973
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 08/09/2022
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 06/22/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021	Source: Department of Public Health
Date Data Arrived at EDR: 11/18/2021	Telephone: 707-463-4466
Date Made Active in Reports: 11/22/2021	Last EDR Contact: 08/16/2022
Number of Days to Update: 4	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022	Source: Merced County Environmental Health
Date Data Arrived at EDR: 02/17/2022	Telephone: 209-381-1094
Date Made Active in Reports: 05/11/2022	Last EDR Contact: 08/09/2022
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

MONO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

Date of Government Version: 07/21/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 3

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 6

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 75

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN FRANCISCO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks Underground storage tank sites located in Sutter county.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/27/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 76

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List Cupa facility list

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018	Source: Divison of Environmental Health
Date Data Arrived at EDR: 04/25/2018	Telephone: 209-533-5633
Date Made Active in Reports: 06/25/2018	Last EDR Contact: 07/12/2022
Number of Days to Update: 61	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/28/2022	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 04/28/2022	Telephone: 805-654-2813
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 06/22/2022
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/02/2022
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2022	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 04/28/2022	Telephone: 805-654-2813
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/28/2022	Source: Environmental Health Division
Date Data Arrived at EDR: 03/08/2022	Telephone: 805-654-2813
Date Made Active in Reports: 06/02/2022	Last EDR Contact: 06/07/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

YOLO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/24/2022	Source: Yolo County Department of Health
Date Data Arrived at EDR: 03/31/2022	Telephone: 530-666-8646
Date Made Active in Reports: 06/27/2022	Last EDR Contact: 06/22/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2022	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 05/05/2022	Telephone: 530-749-7523
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/09/2022	Telephone: 860-424-3375
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 06/28/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 07/29/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

AGRICULTURAL PROPERTY
3880 BAYOU WAY
SACRAMENTO, CA 95835

TARGET PROPERTY COORDINATES

Latitude (North):	38.665521 - 38° 39' 55.88"
Longitude (West):	121.554057 - 121° 33' 14.61"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	625800.2
UTM Y (Meters):	4280445.0
Elevation:	17 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12021657 TAYLOR MONUMENT, CA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

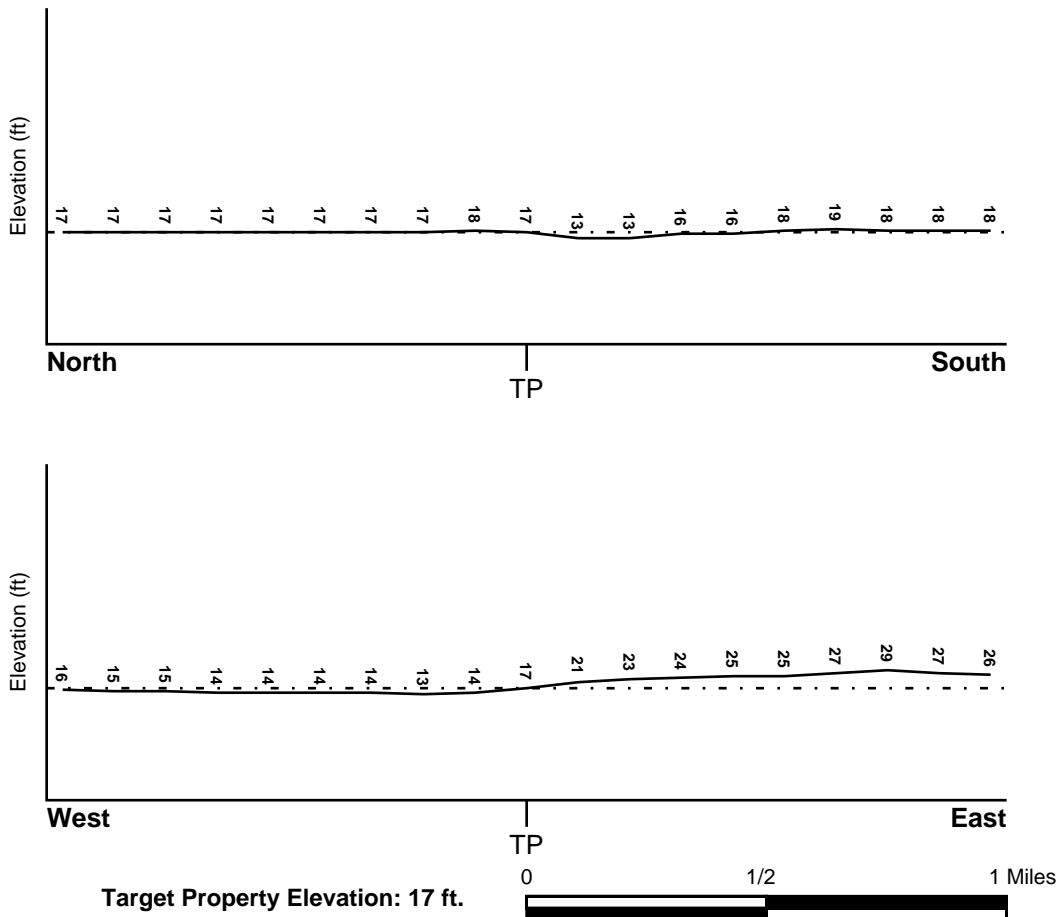
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06067C0045J	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06067C0040J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
TAYLOR MONUMENT	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

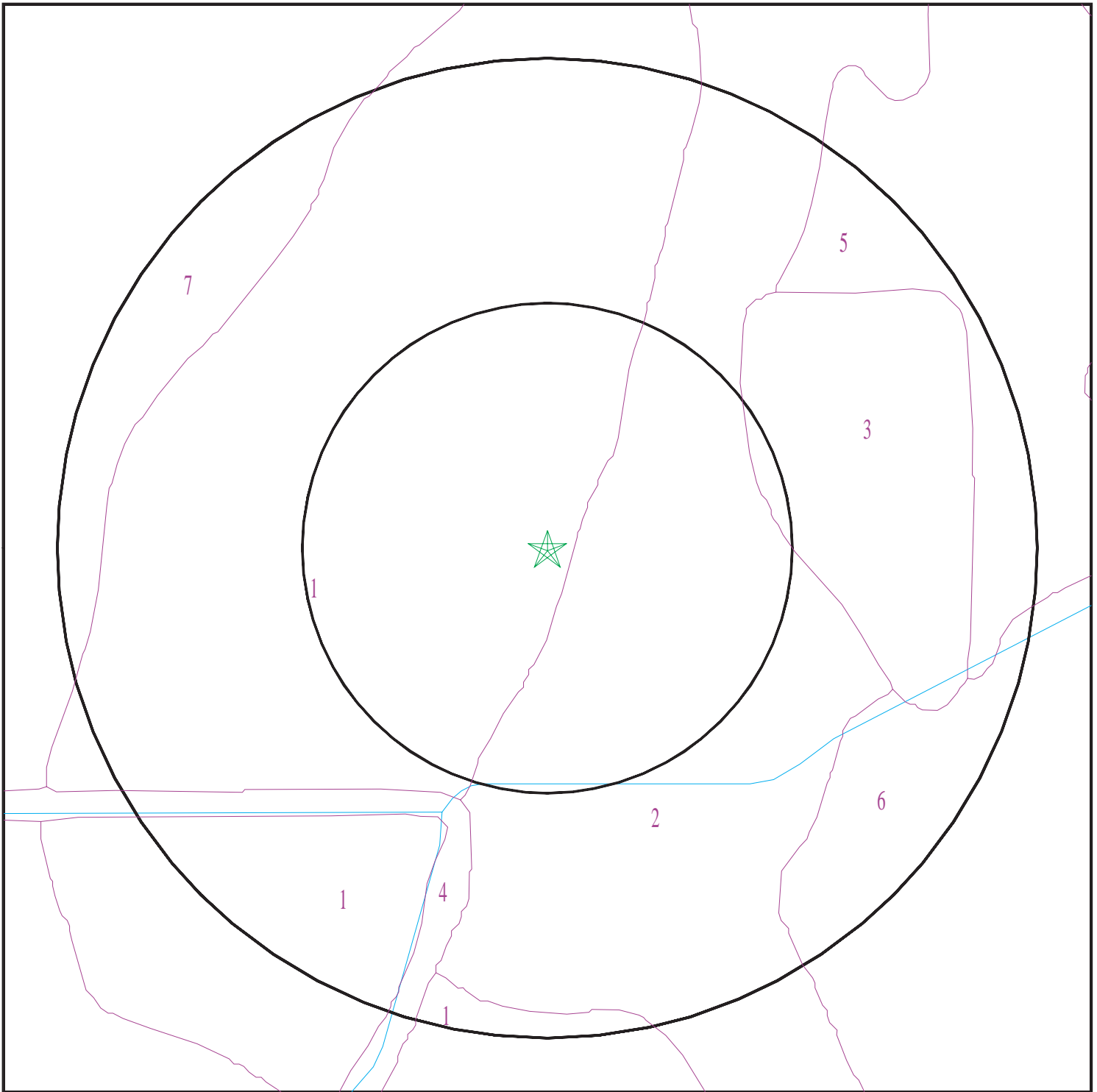
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

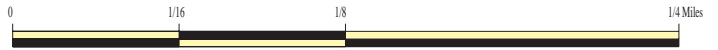
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7093394.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Agricultural Property
ADDRESS: 3880 Bayou Way
SACRAMENTO CA 95835
LAT/LONG: 38.665521 / 121.554057

CLIENT: Env. Inv. Services, Inc.
CONTACT: Peter Littman
INQUIRY #: 7093394.2s
DATE: August 22, 2022 1:50 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CLEAR LAKE

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	14 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	33 inches	48 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
4	48 inches	64 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: JACKTONE

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 9 Min: 7.9
2	11 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 9 Min: 7.9
3	33 inches	51 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 9 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	51 inches	59 inches	stratified loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 9 Min: 7.9

Soil Map ID: 3

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
4	53 inches	59 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
2	22 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	27 inches	53 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
4	53 inches	59 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 6

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
2	14 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	20 inches	46 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
4	46 inches	59 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 7

Soil Component Name: COSUMNES

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	7 inches	20 inches	stratified silty clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	20 inches	42 inches	stratified clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
4	42 inches	59 inches	stratified clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CADWR9000039984	1/2 - 1 Mile SSW
2	8951	1/2 - 1 Mile SSE
3	CADWR0000028740	1/2 - 1 Mile NW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

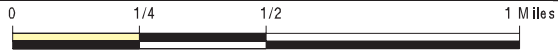
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG14000008100	1/2 - 1 Mile South
2	CAOG14000008064	1/2 - 1 Mile NNW
3	CAOG14000008189	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 7093394.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Agricultural Property
 ADDRESS: 3880 Bayou Way
 SACRAMENTO CA 95835
 LAT/LONG: 38.665521 / 121.554057

CLIENT: Env. Inv. Services, Inc.
 CONTACT: Peter Littman
 INQUIRY #: 7093394.2s
 DATE: August 22, 2022 1:50 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SSW
1/2 - 1 Mile
Higher **CA WELLS** **CADWR9000039984**

State Well #:	Not Reported	Station ID:	54879
Well Name:	Souza	Basin Name:	North American
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	300	Well Completion Rpt #:	1079971

2
SSE
1/2 - 1 Mile
Higher **CA WELLS** **8951**

Seq:	8951	Prim sta c:	09N/04E-09B01 M
Frds no:	3400276001	County:	34
District:	64	User id:	34C
System no:	3400276	Water type:	G
Source nam:	WELL A	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	383916.0	Longitude:	1213246.0
Precision:	3	Status:	AR
Comment 1:	3700 DEL PASO RD SAC CA 95838	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3400276	System nam:	Natomas Union School
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

3
NW
1/2 - 1 Mile
Higher **CA WELLS** **CADWR0000028740**

Well ID:	10N04E32D001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	10N04E32D001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=10N04E32D001M&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
South
1/2 - 1 Mile

OIL_GAS CAOG14000008100

API #:	0406700396	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Monterey-Humble-Wright	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/14/1954		

2
NNW
1/2 - 1 Mile

OIL_GAS CAOG14000008064

API #:	0406700333	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Humble-Hicok	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	09/12/1962		

3
SE
1/2 - 1 Mile

OIL_GAS CAOG14000008189

API #:	0406720320	Well #:	1-4
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Wright	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	11/23/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95835	3	1

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX I

Airport South Industrial Preliminary Drainage Study

City of Sacramento, California

Prepared For:

Reviewed and Accepted
By: Michelle Miller
10/18/2023

**City of Sacramento Department of Utilities
And
Reclamation District 1000**

October 11, 2023

Prepared By:



Table of Contents

I.	Introduction & Purpose.....	1
II.	Drainage Background Information.....	2
III.	Pre-Project Site Conditions	3
	A. Pre-Project On-Site Drainage System.....	3
	B. Pre-Project Off-Site Drainage System	4
IV.	Post-Project Site Conditions.....	6
	A. Post-Project On-Site Drainage System.....	6
	B. Post-Project On-Site Grading.....	7
	C. Post-Project Off-Site Drainage System.....	8
	D. Future FEMA Mapping Revisions.....	8
V.	Hydraulic Modeling.....	8
	A. Hydromodification	12
	B. Low Impact Development and Storm Water Quality	12
	C. CA SB 5 and 200-Year Analysis.....	12
VI.	Design-Level Considerations and RD 1000 Canal Setbacks.....	13

Tables

Table 1 Datum Conversions	4
Table 2 Metro Air Park Drainage Projects.....	5
Table 3 Approximate Volumes for Pre-project and Post-project Detention	7
Table 4 Changes in Maximum Water Surface from Original Model to	10
Table 5 Water Surface at Key Locations.....	10

Exhibits

Exhibit A	Regional Location Map
Exhibit B	Site Plan
Exhibit C	Land Use Summary
Exhibit D	Federal Insurance Rate Map (FIRM) Panel
Exhibit E	Reclamation District 1000 (RD 1000) Facilities
Exhibit F	Topographic Mapping
Exhibit G	Excerpts from the MAP CIP dated 2004-2005
Exhibit H	Excerpts from the MAP Finance Plan dated 2020
Exhibit I	(Left Open)
Exhibit J	Earthwork Map
Exhibit K	Schematic Drainage Plan
Exhibit L	Preliminary Earthwork Cut Fill Diagram
Exhibit L	Post-Project Drainage Schematic
Exhibit M	XPSWMM Model Input and Output Data
Exhibit N	Low Impact Development (LID) Credits & Treatment BMP Sizing Calculations

I. Introduction & Purpose

This Preliminary Drainage Study Report (Report) has been prepared to provide preliminary drainage study information for the project titled the Airport South Industrial (ASI) Project (Project), examining drainage and grading infrastructure information associated with the development of a future planned industrial warehouse and highway commercial project. Existing and proposed land uses, hydraulics, and proposed infrastructure-level improvements for the Project will be included as well as an XPSWMM analysis using the regional base modeling provided by Reclamation District 1000 (RD 1000). This Report is intended to provide the information needed for the entitlement application and processing, including the preparation of an Environmental Impact Report (EIR) for the Project. This work will include coordination with the City of Sacramento (City) and RD 1000 in supporting the development of a preliminary storm drainage plan and providing a description of the hydrology and hydraulics (H&H) of the on-site and off-site systems. Design-level storm drainage analysis will be provided later in conjunction with Project development subsequent to Project approvals.

The ASI Project area totals approximately 436.5 acres, and is located along Bayou Road south of Interstate 5 (I-5). The Project is currently within the County of Sacramento (County). **Exhibit A** is a Regional Location Map. The property lies south of I-5 and south and east of the Sacramento International Airport (SMF). Metro Air Park (MAP), an 1,892-acre Industrial Business Park, lies directly to the north of the Project and I-5. The Northlake (formerly Greenbriar) project lies north of I-5, and is northeast of the Project. The North Natomas Community Plan (NNCP) comprising approximately 7,440 acres in the City of Sacramento, is located east and southeast of the Project area. Agricultural and North Natomas habitat mitigation lands lie south of the Project. Undeveloped Airport Master Plan Development lands owned by SMF within the County of Sacramento are located west and southwest of the Project area. The east boundary of the Project area is the City/County boundary. This includes a 200-foot-wide City-owned buffer along the eastern boundary of the Project. Phase I of the new MAP Interchange has been completed on I-5, which is located directly north and comprises a portion of the Project area.

The Project is proposed for annexation from the County into the City of Sacramento. The City is the lead agency for the Project annexation and entitlements. The Project area has multiple landowners. NP Land Holding Company, LLC (NorthPoint Development) and AKT Investments, Inc. (AKT) are the Applicants and are sponsoring the entitlements for the Project.

Exhibit B is the current site plan prepared for the Project. The Project annexation area totals 474.4 acres. This area is inclusive of the State of California Department of Transportation (Caltrans) lands measured roughly to the center of I-5, and also includes the south approximate one-half of the new Metro Air Parkway Interchange. The west boundary extends to the approximate centerline of Power Line Road. Caltrans' I-5 Right-of-Way (R/W) totals approximately 37.9 acres. This leaves approximately 436.5 gross acres of lands proposed for development.

Exhibit C is the Land Use Summary for the Project. The developable lands proposed for entitlements total approximately 436.5 acres. The Project will include development of an industrial park and highway commercial areas. Developable areas will include warehousing, highway commercial, internal roadways, parking, detention basins, buffer areas, sewer and drainage pump stations and other related facilities. The industrial buildings total an estimated 6,609,300 square feet (SF). The highway commercial totals an estimated 80,940 SF. The Project is largely made up of the Applicant-sponsored area, but includes other future industrial lands not under ownership by the Applicants.

II. Drainage Background Information

Exhibit D is the applicable Federal Insurance Rate Map (FIRM) for the Project area. The Project is located within the Natomas Basin. The Natomas Basin comprises approximately 50,000 acres and is protected by a levee system under the jurisdiction of the United States Army Corps of Engineers (USACE). The levees surrounding the Natomas Basin were decertified by the USACE in December 2008. After that date, the Sacramento Area Flood Control Agency (SAFCA), the USACE, and the State of California have been, and currently are, working together to fund, design and construct levee improvements to provide 200-year protection to the Natomas Basin. Over 50 percent of the levee improvements have been constructed, and 100 percent of the funding has been allocated by local, state and federal agencies to complete all of the levee improvements. This level of levee completion and funding has allowed portions of the Natomas Basin to be classified as A-99 flood zones, including the eastern portion of the Project area. A-99 is an interim designation that allows new development to proceed without elevation verification while the improvements needed to provide 100-year protection are under construction, but it is still a special flood hazard area until construction and certification is complete and the levees are accredited by the Federal Emergency Management Agency (FEMA). The majority of the Project area is classified as Zone A, which means FEMA requires more detailed interior (local) drainage assessments to remove it from the special flood hazard area, in addition to addressing the levee flooding issues.

Drainage will be provided by the City of Sacramento and Reclamation District 1000 in a similar manner as is currently performed in North Natomas and other areas of the Natomas Basin. In the vicinity of the Project, RD 1000 owns and operates the existing canals and pumping plants that move storm drainage from the local area to the Sacramento River. RD 1000 collects all runoff within the Natomas Basin through a system of interconnected channels and directs this runoff to pumping plants in order to lift the water into the leveed rivers and channels surrounding Natomas. These channels and pumping systems rely on existing flood storage in low lying areas to dampen peak flows, metering water into the pumping plants and allowing pumping to operate more efficiently with less peaking. This is a complicated system that can move drainage from various outfall points to outside the basin.

It is anticipated that the City will own and operate the future shared system that will detain and pump storm drainage runoff from multiple parcels prior to discharge to the RD 1000 System. RD 1000 is then responsible for the off-site system conveying the drainage from the Project site to the Sacramento River, or otherwise outside of the Natomas Basin.

Exhibit E is a map of the RD 1000 System in Natomas. Off-site runoff affecting the Project in the RD 1000 System enters the Project along RD 1000 L Drain of the Lone Tree Canal that flows south through three 8' x 5' box culverts under I-5 (directly north of the Project). Within the Project, RD 1000 L Drain of the Lone Tree Canal bisects the easterly one-third of the Project from the westerly two-thirds of the Project. RD 1000 L Drain flows south to join the West Drainage Canal that is located along the south boundary of the Project. At this confluence of the Lone Tree Canal and the West Drainage Canal, drainage runoff can either flow east and south toward Pumping Plant 3 on the Sacramento River or west and northwest toward Pumping Plant No. 5 on the Sacramento River. It should be noted that the RD 1000 system in the Lone Tree Canal and West Drainage Canal is operated with a permanent backwater condition whereby the canals contain water at all times of the year.

While the limits of the federally-recognized 100-year floodplain are not currently mapped due to the basin-wide Zone A99 designation, the Project Land was within a previously mapped Zone A. This and the basin wide modeling indicates that the Project lands provide storage of floodwaters during the 100-year storm in the undeveloped state. This floodplain mapping and modeling establishes the accepted definition of interior flooding conditions with the levees being certified.

RD 1000 provided their base XPSWMM model to Wood Rodgers in order to analyze the on-site and off-site storm drainage impacts and mitigations, discussed further in the Hydraulic Modeling Section of this Report. The design storm for the original model provided to Wood Rodgers by RD 1000 is the 100-year 10-day event. Therefore, all references to the 100-year storm herein are in reference to the 100-year 10-day event.

In order to efficiently develop the property and remove the floodplain, the developed area of the site will need to be raised above the floodplain. Given the floodplain elevations from the RD 1000 model, the buildings' finished floors would need to be raised. Furthermore, parking areas would need to be elevated to limit the 100-year flood depth to within acceptable ranges. Any existing on-site storage that is filled in will need to be mitigated. Estimates of proposed detention have been calculated based on the volume of the pre-project available storage. Preliminary grading designed to mitigate the impacts of a raised site area is discussed in the Hydraulic Modeling Section. **Exhibit C** includes the identification of the approximate footprint areas where the on-site compensating detention areas may be placed.

Within the Natomas Basin, RD 1000 requires that developed lands mitigate their post-project runoff in order not to increase above pre-project levels. In the development of North Natomas and the Greenbriar project, this has equated to discharging approximately 0.10 cubic feet per second/per acre (cfs/acre) of runoff into the RD 1000 system during a 100-year event. The interactions of existing/new storage, conveyance and pumping need to be modeled dynamically to determine the appropriate discharge rate for any project area. Detailed modeling results will be provided herein that will ultimately establish the hydraulic parameters that will govern the Project drainage characteristics. This Report will describe on-site improvements that are required for Project development including on-site detention basin sizing.

The design of on-site detention basin facilities will also be affected by the local groundwater table. Groundwater in the Natomas Basin is relatively shallow. Groundwater depths and elevations will be confirmed with future Geotechnical Investigations.

Based on the discussion above, it is important to note that the site grading and detention constraints and requirements are not unusual within the Natomas Basin. Other Project areas have experienced the same issues and have solved the problem by constructing storage basins to accomplish the following:

1. Raise developed areas out of the floodplain by generating and/or importing fill material;
2. Mitigate the lost floodplain storage with detention basin volume that stores drainage through the peak of the storm event and then releases downstream at rates sustainable by the RD 1000 system; and
3. Mitigate post-project runoff with detention basin volume and metering flows into the system during the storm events.

There is an additional mitigation strategy not currently performed in the North Natomas community for ASI. The ASI on-site detention basins will both 1) detain on-site project generated flows and pump into the RD 1000 system; and 2) include weirs to allow the RD 1000 canals to overflow into the detention basins to match the existing 100-year storage on the project site. This second function that is needed to mitigate the loss of on-site floodplain.

III. Pre-Project Site Conditions

A. Pre-Project On-Site Drainage System

Other than the existing RD 1000 ditches and canals, the existing site has no internal drainage system(s) flowing overland towards the RD 1000 canals and ditches around the perimeter and through the site.

Site topography has been flown recently in accordance with City requirements based on the City of Sacramento (vertical) Datum (COSD). **Exhibit F** is the topographic map. The western two-thirds of the site (west of RD 1000 L Drain of the LTC) is relatively flat at roughly elevation 10.0 (COSD). The elevations increase in the vicinity of the new interchange from elevation 10.0 to elevation 35.0 at the existing Metro Air Parkway bridge crossing of I-5. In the eastern area of the site (east of RD 1000 L Drain of the LTC), the elevations generally slope from elevation 10.0 to elevation 25.0 at the east boundary.

It is important to note that the site topographic information has been mapped using COSD. The RD 1000 XPSWMM drainage model, however, is based on topographic survey information mapped under the North American Vertical Datum of 1988 (NAVD 88). These datums differ by 1.981' vertically with the NAVD 88 elevation values being the higher of the two. It is, therefore, necessary to account for this elevation difference when identifying preliminary grading for the Project. All elevations referenced herein are based on COSD, unless otherwise noted. Elevations (results) reported herein that were obtained from the model have been 1) converted to COSD and 2) reported in NAVD88, to allow for simultaneous review and comparison by involved agencies. Elevations reported in the XPSWMM modeling (see **Exhibit M**) are still based on NAVD 88.

The following table provides the datum conversions to provide consistency between the City of Sacramento Datum (COSD), NGVD 29 and NAVD88.

Table 1 Datum Conversion

From Datum	To Datum			
	COSD	NGVD29	NAVD88	
COSD	0	-0.159	+1.981	
NGVD29	+0.159	0	+2.14	
NAVD88	-1.981	-2.14	0	

B. Pre-Project Off-Site Drainage System

The off-site drainage system is owned, operated and maintained by RD 1000. The RD 1000 System is shown on **Exhibit E**. For purposes of this section, RD 1000 L Drain bisects the site from north to south and will be considered part of the off-site drainage system. As stated previously, RD 1000 L Drain flows south to join the West Drainage Canal that is located along the south boundary of the Project. At this confluence between RD 1000 L Drain and the West Drainage Canal, drainage runoff can either flow east and south toward Pumping Plant 3 on the Sacramento River, or west and northwest toward Pumping Plant No. 5 on the Sacramento River. The current capacity at Pumping Plant No. 5 is 57 cfs. Pumping Plant No. 3 has a greater existing capacity at 196 cfs.

Improvements to the RD 1000 system have been necessary over the years as the Natomas Basin has urbanized. The downstream system described above has gone through various improvements, and other improvements are still pending. Recent upstream improvements have included the widening and regrading of the Lone Tree Canal (north of I-5) as part of the Northlake project. Fairly recent downstream improvements include culvert and pumping plant improvements.

With the development approvals of Metro Air Park over 20 years ago, there are agreed-upon improvements to the downstream system (south of I-5) that have relevance to the Project. Included as **Exhibit G** are excerpts from the MAP Capital Improvement Program (CIP) dated 2004-2005. **Exhibit G** also includes

figures that detail the location and proposed improvements. **Exhibit H** includes excerpts from the MAP Finance Plan dated 2020. These detail the proposed improvements in scope, estimated costs, and timing. The projects are summarized as follows:

Table 2 Metro Air Park Drainage Projects

MAP CIP No.	Description	Status
1. RD 1000-1	Install 3-each 84" culverts at Del Paso Road and the West Drain Canal	Completed
2. RD 1000-2	Install 3-each 84" culverts at Powerline Road and the East/West Canal	Not Completed
3. RD 1000-3	Install 3-each 84" culverts at the confluence of Reach 4 & Reach 5	Not Completed
4. RD 1000-5	Reconstruct Pumping Plant 3 to a total capacity of 280 cfs	Funded
5. RD 1000-6	Install Box Culvert and an 80-cfs pump to Pumping Plant No. 3	Not Completed
6. RD 1000-7	Regrade Reach 8 (RD 1000 L Drain) and the LTC north of I-5; Install 2-84" I-5 culverts	Not Completed
7. RD 1000-8	Install SMF Irrigation Pump	Completed

It is important to note that MAP CIP No. 5 lists an 80-cfs pump being added to Pumping Plant No. 3; however, the RD 1000 description of Pumping Plant No. 3 in the XPSWMM model shows an existing capacity of 196 cfs. The agreement between MAP and the County clearly states that the ultimate capacity of Pumping Plant No. 3 is intended to be 280 cfs; therefore, the pump size to be installed under this capital improvement is assumed to be 84 cfs for the purposes of this Report.

Based on the updated 2020 MAP Finance Plan excerpts in **Exhibit H**, the proposed RD 1000 improvements are scheduled at 20-percent and 30-percent build-out of MAP. Note that the ASI Project team has been informed by the County of Sacramento that current buildout has exceeded or will exceed these thresholds in the near future.

At the time of this study, it can be assumed that all improvements listed above will be constructed as part of the MAP Capital Improvement Program. Therefore, they become part of the Pre-Project Off-Site System.

As part of Improvement RD 1000-7 listed above, "*boring and jacking 2-78" RCP culverts under I-5*" was included as a part of the original 2005 CIP, and is still included today. However, an analysis concurrent with this study and also performed by Wood Rodgers indicates that these 2-78" RCP culverts may not be considered beneficial based on the cost vs. the benefit of reducing upstream water surface (WS) elevations (approximately 0.5'). These 2-78" culverts added to the existing 3-each 8' x 5' culverts under I-5 are not necessary to mitigate impacts to the system with the containment of increased water surfaces upstream of I-5. This preliminary analysis assumes that these 2-78" RCP culverts will not be constructed and are, therefore, excluded from pre-project and post-project conditions hydraulic modeling. While the elimination of the need for adding 2-78" culverts under I-5 for Metro Air Park is reasonable for purposes of this study, the decision is pending further evaluation by the RD 1000 and Sacramento County.

IV. Post-Project Site Conditions

A. Post-Project On-Site Drainage System

Exhibit K depicts the schematic drainage design for the on-site system. The on-site system will be owned, operated and maintained by the City of Sacramento. Maintenance agreements may need to be executed between the Project and the City to maintain the basins. The on-site design consists of a perimeter system of detention basins located adjacent to the RD 1000 ditches and canals that border the west and south Project boundaries and areas adjacent to RD 1000 L Drain (which bisects the easterly one-third of the Project). The basins will each be interconnected with a 36" diameter culvert(s) or larger in order to provide a single continuous system. In design, the culverts may be upsized, or redundant barrels may be added, for conservative operations and maintenance reasons. The basins, as stated previously, are connected to the RD 1000 system through weirs to meet the pre-project spill condition and to provide on-site floodplain storage.

This on-site system will be controlled by a pump station currently planned to be located near the intersection of RD 1000 L Drain and ASI Drive. Based on the modeling included herein, the pump station discharge capacity will be 35 cfs, modeled as two 17.5-cfs pumps. A low-flow pump may also be incorporated to maintain the flood control depth needed in the basin for the winter months, or as needed to keep the basins drawn down in the summer months. Low flow pumps are typically not operated during flood control operations and are not included in the modeling. The City has stated that trash capture requirements will need to be addressed in the final design. Wood Rodgers anticipates that trash capture will be achievable at the inlet to the pump station through screen mechanisms or mesh bags. Any method of trash capture will require frequent monitoring and cleaning to keep the pump station fully operational.

It is planned for the two basin areas on the east side of RD 1000 L Drain to interconnect from south to north. The north basin is then planned to connect to the proposed drainage pump station via a pipe crossing under RD 1000 L Drain through box structures and manhole/vault on each side of the RD 1000 L Drain prior to a connection to the proposed pump station. It is important to note that the L Drain in the RD 1000 Model includes excavation from just downstream of I-5, south to the confluence of the L Drain with the West Drainage Canal. This is pursuant to the proposed MAP CIP improvements (**Exhibit G**) presented in the Pre-Project Off-site Drainage section above, and limited by the existing elevations of the upstream culverts at I-5 and the downstream confluence. Considering the proposed deepening means that the depth of the proposed box structures will likely be on the order of elevation (-4.0' to -7.0') or roughly 14' to 17' below existing ground (approximately 20' below future finished grade) in order to allow the east-to-west connecting pipe(s) to clear the lowered invert of RD 1000 L Drain. The RD 1000 standards require that pipes under drainage laterals be installed with a minimum of 5 feet of cover from top of culvert to the bottom of ditch. As the standard cover includes an allowance for future deepening, the cover may be reduced to not less than 5 feet below finish grade of the ditch bottom for this application.

The on-site system is a closed system that only experiences external influences during larger storm events like (i.e. the 100-year event). The 10-year system HGL has been preliminarily examined. It is significantly lower than 100-year levels. Based on this fact, the 10-year system and modeling has been assumed fairly straight-forward, and has not been performed with this analysis, but will be performed and detailed when the future design-level grading and drainage study is prepared for the Project. The opportunity for the on-site drainage system to be connected to the basins is also very flexible given the perimeter system of detention basins located within the Project.

The approximate volumes for pre-project and post-project detention are presented below in **Table I**:

Table 3 Approximate Volumes for Pre-project and Post-project Detention				
Property Owner	Acreage	Pre-Project Acreage Within 100-Year Floodplain	Pre-Project Max. Water Volume Stored During 100-year Event (ac-ft)	Post-Project Max Water Volume Stored During 100-year Event (ac-ft)
North Pointe AKT	353.5	308.8	174.6	362.3
Cayocca*	64.3	37.1	18.4	75.0
Campbell*	6.5	6.5	3.5	1.8
Isgur*	4.6	4.6	2.5	1.3
Patel*	0.7	0.3	0.3	0.2
Caltrans Remnant*	6.9	6.8	3.7	1.9
Total	436.5	364.1	203.0	442.5

Note: Some of the maximum water volumes reported in the table above were obtained by dividing model results by property owner boundaries, rather than watershed and/or development boundaries. An area weighting method was used to aggregate and divide post-project storage volume on a property owner basis for the Campbell, Isgur and Patel properties that share a single detention basin.

**At the time of this study, preliminary on-site grading has not been assessed. Detention volumes are preliminary.*

The table above provides a preliminary breakdown of pre-project and post-project flood storage and could be used as the basis for allocating costs and cost-sharing agreements for the implementation of any shared facilities.

B. Post-Project On-Site Grading

Post-project development is shown on **Exhibit C**. As stated previously, the site must be raised in order to bring the developed (buildable) areas of the site above the existing 100-year floodplain. The grading is, therefore, an important aspect of the site design.

Preliminary project grades were input into the grading model for the project. **Exhibit J** (Earthwork Cut-Fill Diagram) identifies general finished grades and pad grades for the industrial warehouse areas of the Project and preliminary grading volumes.

Exhibit K provides a grading cross-section that illustrates the relationship between the 100-year WS in the off-site RD 1000 canals, the basin detention basins, public roadways, parking, and industrial warehouse building elevations. Based on the XPSWMM modeling included herein, the 100-year WS in the basins is at elevation 11.9 (COSD).

C. Post-Project Off-Site Drainage System

Based on the analysis described in the Hydraulic Modeling section below, there are no proposed improvements to the post-project off-site drainage system described above. It is assumed that the pre-project condition improvements have been completed as defined in the MAP CIP and Finance Plan. This has been confirmed with RD 1000 during their review of this study.

D. Future FEMA Mapping Revisions

The project is currently mapped within a FEMA floodplain, as shown on Exhibit D. Future development of the project will likely require a Conditional Letter of Map Revision (CLOMR) and a subsequent Letter of Map Revision (LOMR) to remove floodplain designations which inhibit development. It is anticipated that the Zone A floodplain will be modified using the RD 1000 modeling for interior drainage, prior to the regional Zone A99 designation being removed (after all levee improvements are constructed). Wood Rodgers assumes that RD 1000 will allow and support submittal of its modeling for such a purpose.

V. Hydraulic Modeling

The revised RD 1000 modeling has been provided with the submittal of this Report to the City of Sacramento Department of Utilities (DOU) and RD 1000. A schematic diagram of the XPSWMM model nodes and links in the vicinity of the Project area is shown on **Exhibit L**. Pertinent input and output data has been included as **Exhibit M**. As stated previously, the design storm for the original model provided to Wood Rodgers by RD 1000 is the 100-year 10-day event. Therefore, all references to the 100-year storm herein are in reference to the 100-year 10-day event.

In order to identify the pre-project conditions, including storage utilized within the Project area in the 100-year storm, modifications to the original model sent from RD 1000 were made to include new detailed topographic and other information known for this specific area of the Natomas Basin. The changes to the original model are summarized as follows:

1. Incorporate all improvements to the RD 1000 system listed in the MAP Finance Plan dated 2020 that are outlined above with the corrected pumping increase at Pumping Plant 3. This is with the exception of the additional twin 78" culverts under I-5.
2. The existing conditions Project area is modeled as two storage nodes. Based on the detailed site topography (City of Sacramento Datum) that was flown on October 12, 2021, the storage curves are updated.
3. The links that connect the Project area storage nodes to the RD1000 L Drain and West Drainage Canal confluence are simplified to 1,000'-long, 50'--wide rectangular conduits within the original model. The invert elevations of the rectangular conduits were modified to reflect the latest topography.
4. The North Lake project (formerly Greenbriar) has also been incorporated into the baseline condition, north of I-5, as a single developed watershed with a single detention basin and outlet connection to the RD 1000 system.

No changes were made to the hydrology in the model to reflect pre-project (baseline) conditions. The original model hydrology was calibrated to the 1986 storm event by Mead & Hunt (formerly Ensign & Buckley) and is incorporated in the November 2021 model.

When comparing storage curves from the original model and the storage curves developed from the latest topography, the original model sent by RD 1000 estimated more storage capacity within the Project area. As a result of correcting existing storage, the WS within the West Drainage Canal and RD 1000 L Drain increased approximately 0.4' under baseline conditions. The changes in maximum WS from the original model to the pre-project conditions model are summarized in Table 2 below:

Table 4 Changes in Maximum Water Surface from Original Model to Pre-project Conditions Model					
Location Description	Model Node Name	COSD		NAVD 88	
		Original Model WS (feet)	Pre-Project Model WS (feet)	Original Model WS (feet)	Pre-Project Model WS (feet)
Western Portion of Development Storage Node	1132	11.638	12.201	13.619	14.182
Eastern Development Storage Node	11215	11.825	12.209	13.806	14.19
RD 1000 L Drain – Downstream of I-5	11536	11.481	12.579	13.462	14.56
RD 1000 L Drain and West Drainage Canal Confluence	167	11.673	12.198	13.654	14.179
West Drainage Canal and Reach 6 Confluence	1103	11.812	12.219	13.793	14.2
West Drainage Canal – Node to Connect Western Development and West Drainage Canal	166	11.695	12.198	13.676	14.179
West Drainage Canal Upstream of Del Paso Road	11013	11.566	12.071	13.547	14.052

To represent the post-project conditions within the hydraulics model, the following changes were made to the pre-project model (See Model Output **Exhibit M**):

- I. Storage curves were modified based on the proposed grading for the AKT (NorthPoint) and JTS Property Management (NorthPoint) (JTS) portions of the development. For the Cayocca property, the grading has not been designed yet. To estimate a conceptual storage curve, a parking lot area was assumed based on the percent parking area of the total area for the NorthPoint/AKT (Parcels 1-5) development area. A square detention basin with a bottom elevation of 3.0 (COSD) was estimated to represent the area of detention required to replace the pre-project storage under the 100-year water surface. The upper 0.9'

feet of storage was allowed to spread out over the estimated area of the parking lot (similar to the layout for AKT/JTS, NorthPoint).

2. The new storage node was added to represent the portion of eastern development to the north separately from the conceptual design of Cayocca (Parcel 8).
3. All proposed storage nodes were connected with a 24" pipe at the invert of each storage node to allow for drainage to the proposed pump station. Each pipe includes a proposed flap gate to prevent flow from backfilling between development areas.
4. A proposed new pump was added to discharge all development drainage to RD 1000 L Drain. As stated above, the new pump capacity is 35 cfs, using two 17.5 cfs pumps. A new node was added to RD 1000 L Drain to accommodate the new pump injection.
5. The weir spill to Cayocca (Parcel 8) was relocated from the RD 1000 L Drain and West Drainage Canal confluence to a point further upstream along RD 1000 L Drain. A new node was added to RD 1000 L Drain to accommodate the weir flow relocation.

In a pre-project conditions model, the soils within the Project area have extremely low infiltration (0.0031 inch/hour), based on the calibration performed by others. Adding imperviousness due to development will not substantially increase runoff volumes, however, the timing of runoff entering detention can be accelerated through paved (impervious) areas of development. Therefore, at the request of RD 1000, changes to the pre-project hydrology were made to represent the post-project hydrology by modifying the percentage of impervious coverage to levels consistent with industrial development land uses. It is anticipated that the very large onsite detention volumes and metered pumping will offset the impacts felt within the RD 1000 system for developed conditions.

After incorporating the changes listed above into the XPSWMM model, all WS within the RD 1000 system upstream and downstream of the Project are at or below pre-project WS. A list of key locations of WS, with comparisons at some locations, are as follows:

Location Description	Model Node Name	COSD		NAVD 88	
		Pre-Project Model WSE (feet)	Post-Project Model WSE (feet)	Pre-Project Model WSE (feet)	Post-Project Model WSE (feet)
Western Development Storage Node	1132	12.201	11.86	14.182	13.841
Northern Portion of Eastern Development Storage Node	Proposed Development	-	11.903	-	13.884
Patel, Isgur, Campbell and Caltrans Remnant	Node317	-	11.861	-	13.842
Cayocca Storage Node	11215	12.209	12.052	14.19	14.033
RD 1000 L Drain – Downstream of I-5	11536	12.579	12.353	14.56	14.334

RD1000 L Drain – New Node to Connect New Pump to RD1000 L Drain	Node316	-	12.071	-	14.052
RD1000 L Drain – New Node to Connect Eastern Development to RD1000 L Drain	Node314	-	12.066	-	14.047
RD1000 L Drain and West Drainage Canal Confluence	167	12.198	11.986	14.179	13.967
West Drainage Canal and Reach 6 Confluence	1103	12.219	12.018	14.2	14.002
West Drainage Canal – Node to Connect Western Development and West Drainage Canal	166	12.198	11.972	14.179	13.953
West Drainage Canal – Upstream of Del Paso Road	11013	12.071	11.878	14.052	13.862

It is worth noting that peak flows within the West Drainage Canal downstream of the RD1000 L Drain and West Drainage Canal confluence decrease slightly from pre-project to post-project, from 465.5 cfs to 461.7 cfs. Water surface elevations within the short connecting channel just upstream of Pumping Plant No. 3 also decrease from 13.789' to 13.764'. Water surface elevations within the channel just upstream of Pumping Plant No. 5 decrease from 14.589' to 14.550'.

The results from the post-project evaluations indicate that there is some conservatism in the proposed facilities for achieving flood mitigation. The post project condition provides more storage than is required, pumping 35 cfs into the RD1000 system with no impact, while maintaining peak onsite water surface elevations below the RD1000 channel system peak water surfaces, which overflow into onsite detention. Wood Rodgers did not perform an exhaustive evaluation to determine the exact peak pumping rate that would create an increase in the RD1000 system, but pumping may be determined to exceed 35 cfs during final design, making the onsite detention system operate even more effectively. This could potentially allow for a smaller detention volume after final design features, such as inlet/outlet access ramps and encroachments, are fully accounted for during the improvement plan process.

Through rigorous hydrologic and hydraulic analysis RD1000 has established that the worst case 100-year flooding in the RD1000 system occurs during a 10-day duration storm event. It is important to recognize that different parts of the system may behave differently under shorter duration rainfall conditions. At the request of the City of Sacramento Department of Utilities, Wood Rodgers applied the 100-year 24-hour rainfall hyetograph to the RD1000 system model from this study, reflecting proposed onsite conditions for the Airport South Industrial project. The purpose of running this hydrologic scenario was to verify that the higher intensity rainfall patterns occurring in a 24-hour duration storm will not produce a higher onsite peak condition in the detention basin system. While the RD1000 system still produces elevated channel levels high enough to spill into the Airport South Industrial site during the 100-year 24-hour event, the resulting peak stage in the proposed onsite detention basin is 11.2 feet (NAVD88), which is more than 2.6 feet lower than the peak stage during the 10-day duration. Wood Rodgers understands that both the 100-year 10-day and 24-hour durations should be checked in all subsequent analysis efforts to confirm which scenario produces the highest onsite conditions.

A. Hydromodification

The Project site is located within an undesignated area of Sacramento County regarding the application of hydromodification measures. It is anticipated that the drainage from the Project, being detained and pumped into RD 1000's urban channel system before being pumped again into the Sacramento River, will be considered exempt by the City of Sacramento.

B. Low Impact Development and Storm Water Quality

All new projects must follow the requirements found in the Storm Water Quality Design Manual (SWQDM) dated July 2018 with respect to Low Impact Development (LID) and storm water quality treatment design measures. Both of these types of facilities can impact site layout given the area/footprint requirements they can include. The SWQDM provides two spreadsheet templates for calculating credits for proposed LID measures for a given project area based on proposed commercial and residential land uses. Airport South Industrial would be classified as a commercial land use under this manual's requirements. A preliminary draft spreadsheet is provided in **Exhibit N**.

The results from the preliminary LID calculations show that approximately 26.4 acres of amended soils are required for the Project to meet the requirement of 100 credits. The preliminary estimated landscaped areas of the Project site (shown on Exhibit K) are approximately 56 acres and far exceed the required area and should provide sufficient space to accommodate this requirement.

With the addition of 26.4 acres, there is a residual water quality treatment volume of 8.04 acre-feet, which can be easily configured into the final detention basin and pump station configuration during design, potentially with an additional low flow pump. The integrated operation of storm water quality treatment volume with flood storage

By 2030, communities that are permitted through the State Water Resources Control Board (SWRCB) for storm water quality must comply with the recent trash amendments. All trash that is 5 millimeters in diameter or larger must be captured and removed from storm water prior to storm water being discharged into natural or constructed waterways. The SWRCB maintains a list of certified full capture systems that are acceptable for meeting their requirements, which generally includes Bio-retention Systems, Capture and Use Systems, Detention Basins, Infiltrations Trenches or Basins, and Media Filters. The City and the project proponent(s) will work cooperatively to determine the best method(s) for meeting the state's requirements while also satisfying local concerns during the entitlement process.

Note that other LID measures may be examined and incorporated with the future design-level Drainage Study prepared for the Project.

C. CA SB 5 and 200-Year Analysis

By separate Memorandum to the City DOU, Wood Rodgers has provided documentation of the potential need for additional analysis of the 200-year flood protection. This 200-year analysis is a result of the passage of the Central Valley Flood Protection Act of 2008 enacted by Senate Bill 5 in 2007. The California Department of Water Resources (DWR) developed criteria for determining when the Urban Level of Flood Protection (ULOP) applies to a proposed project. Applying the State's criteria and definitions, Wood Rodgers concluded that the Airport South Industrial project is exempt from 200-year flood protection design and can proceed with a submittal of the project for consideration by the City of

Sacramento evaluating 100-year flooding conditions and following standard 100-year flood protection requirements.

VI. Design-Level Considerations and RD 1000 Canal Setbacks

The City of Sacramento and RD 1000 have provided comments since the original submittal of this study in August 2022. Comments have included to H & H modeling and refinements, details of the detention basins, access road requirements, pump station requirements, low flow channel and piping, public system requirements (including operations and maintenance), and proposed setbacks of the detention basin from the RD 1000 canals and ditches.

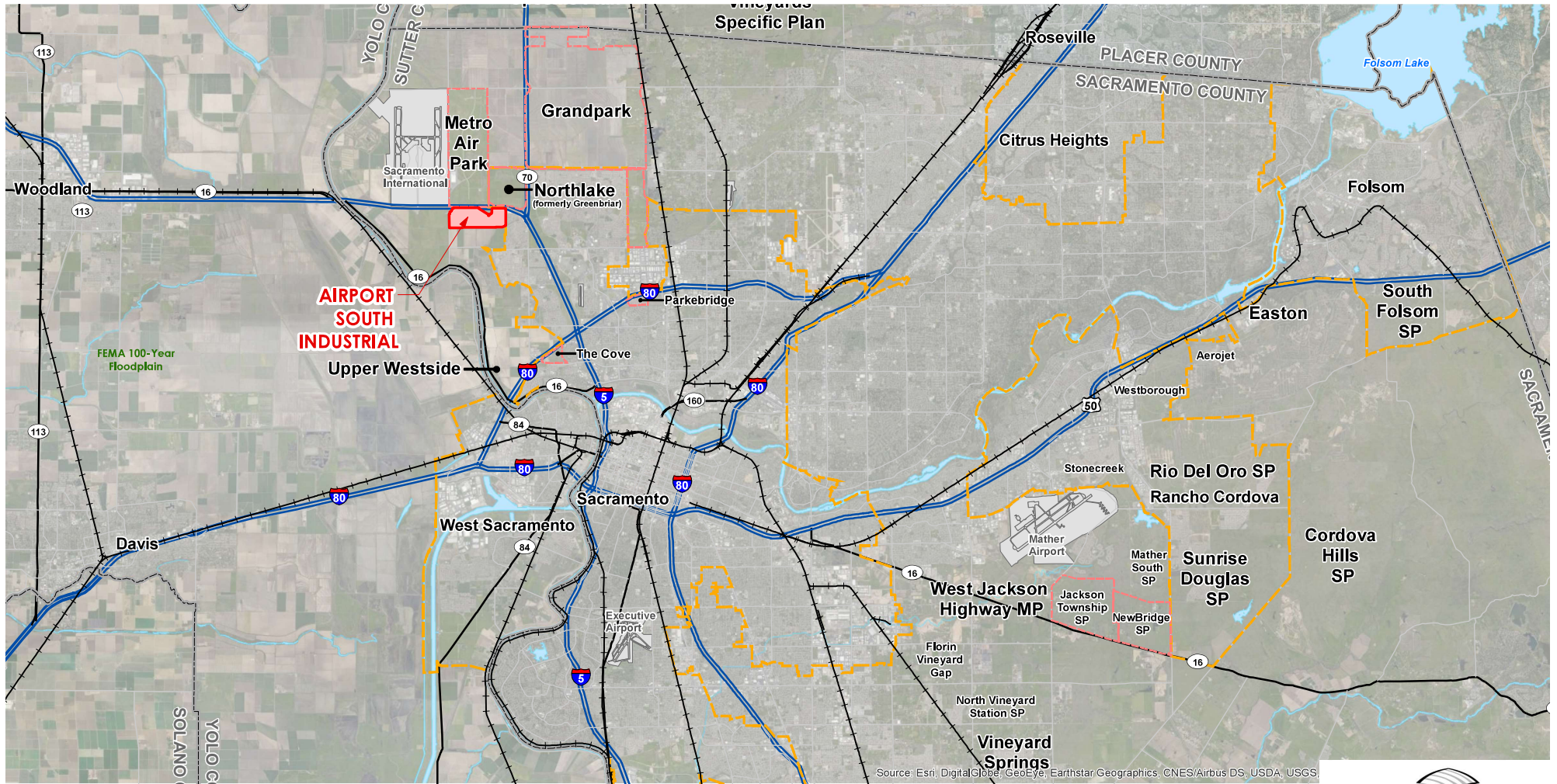
Exhibit K (K.1 and K.2) includes the Schematic design provided as part of this study. While Exhibit K does provide the general drainage design aspects, additional detail will be developed with the design-level study performed post-entitlements. The design-level study will be consistent with future site plan development and refinement, and will occur prior to, or during, preparation of the backbone Common Drainage Improvement Plans for the project.

With design development of the drainage system, both the City of Sacramento and RD 1000 have expressed a need for flexibility in the development of the proposed setback between the RD 1000 canals and ditches and the proposed detention basins. This setback may be increased (or decreased) based on additional details that will be developed in the future. The current setback from the L-Drain and West Drainage Canal has been identified at 90-feet wide. At a minimum, the development of the future canal / detention Basin setback details will be dependent upon the following:

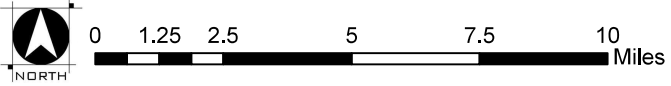
1. Proposed USACE enhancements to the West Drainage Canal. This is part of the mitigation strategy for the perimeter levee improvements in the Natomas Basin.
2. Final recommended improvements to the L Drain through the project site.
3. Specific RD 1000 canal sideslope improvements and potential widening and deepening. This includes the MAP requirements for deepening and widening the north-south L-drain through the project and culvert improvements at Power Line Road, etc. RD 1000 has commented that the minimum sideslope for canals and ditches is 3:1.
4. Allowances for access roads and spoil areas for RD 1000 and the City of Sacramento.
5. Geotechnical analysis that will provide design parameters for separation of the Detention Basin from the Canal to mitigate potential seepage and stability issues.
6. Potential strategies to address endangered species, in particular the GGS.
7. Preparation of the drainage pump station design-report. This report will include the pipe connections from the easterly basins under the RD 1000 L Drain.
8. Other final design-level drainage study and improvement plan details.

The Applicant Team expects to receive Conditions of Approval (COA's) with the current entitlements from the City DOU and RD 1000. These COA's may also address the steps to provide future details and to determine the final proposed buffer (including RD 1000 easements) separating the RD 1000 Canals, the project detention, and developed lands.

EXHIBIT A REGIONAL LOCATION MAP AIRPORT SOUTH INDUSTRIAL



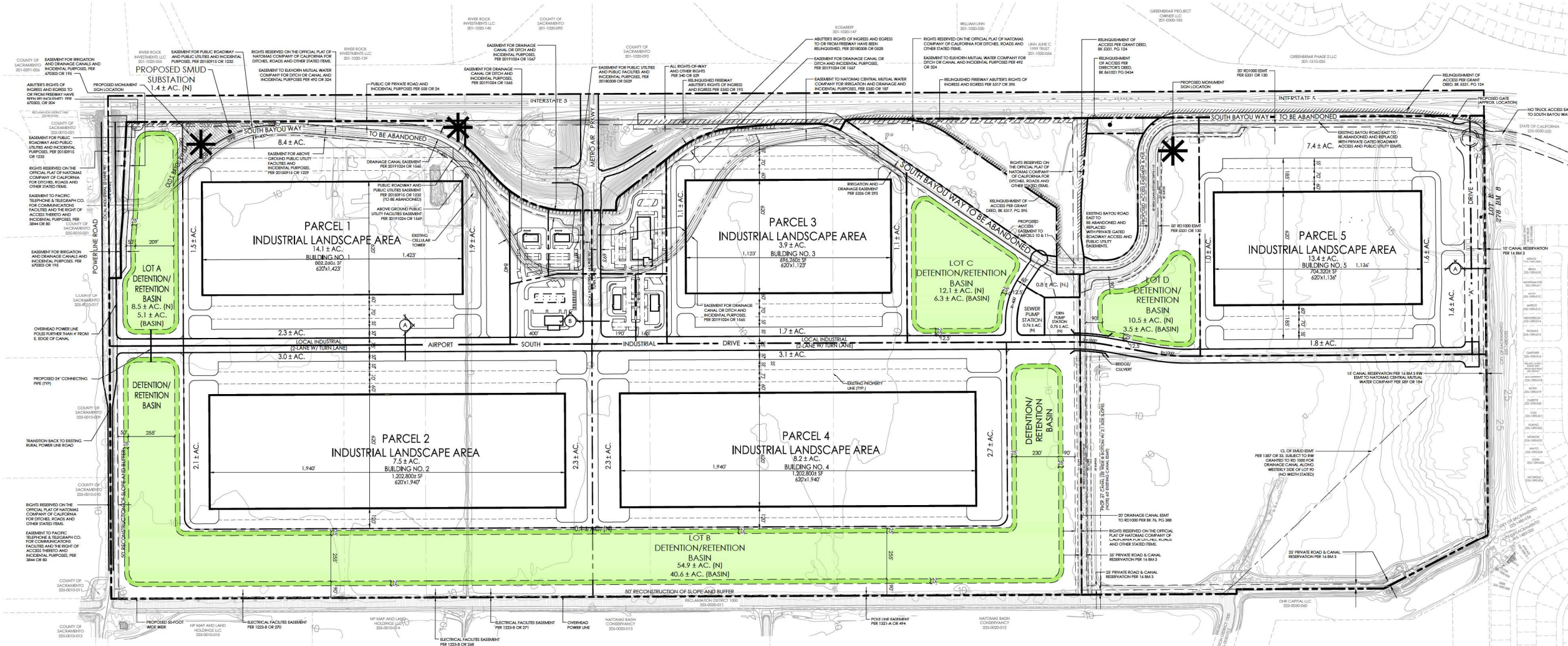
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS



PRELIMINARY SITE PLAN AIRPORT SOUTH INDUSTRIAL CITY OF SACRAMENTO, CALIFORNIA

JULY 25, 2023

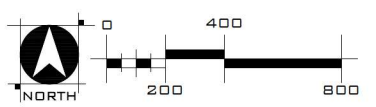
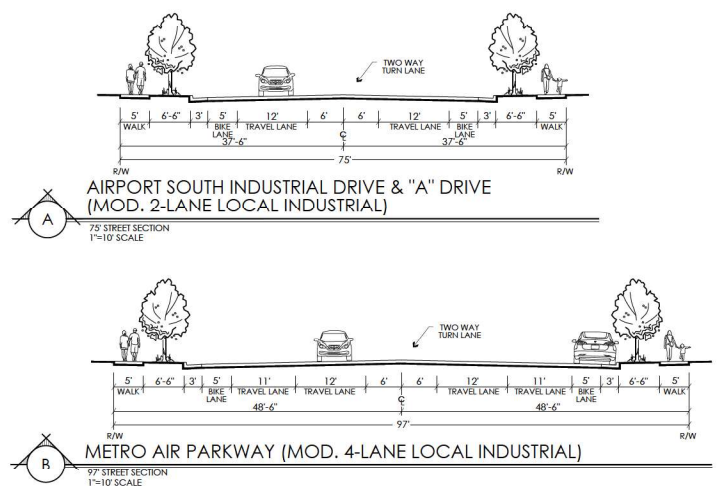
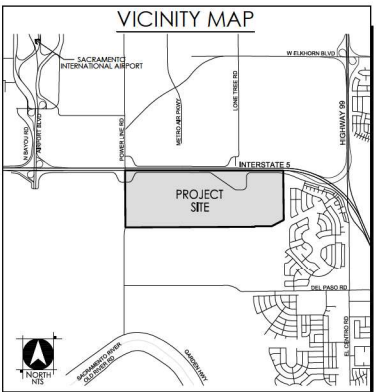
Exhibit B



LAND USE SUMMARY

Site Plan Lot Number	Land Owner	Proposed Land Use	GP Designation	Zone	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands									
1	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	53.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	34.4	606,160	0.46	Calculated	772,200
4	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	45.4	704,320	0.36	Calculated	781,800
Subtotal Warehouse					235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	EC-Low Rise (FAR: 0.15-1.0)	C-2	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	EC-Low Rise (FAR: 0.15-1.0)	C-2	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	3.3	4,050	0.07	Calculated	5,000
Subtotal Retail Commercial					13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	Industrial	M-1	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	Industrial	M-1	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	Industrial	M-1	0.4	-----	-----	-----	-----
Subtotal Public Facilities					89.2	-----	-----	-----	-----
Subtotal Internal Roadways					15.3	-----	-----	-----	-----
Total for Applicant Sponsored Lands					353.5	4,769,380.0	0.31	Average	5,302,700.0
Future Industrial Lands									
8	Cayocca	Future Industrial	Industrial	M-1	64.3	980,318	0.35	Estimated	1,088,200
9	Campbell	Future Industrial	Industrial	M-1	6.5	99,099	0.35	Estimated	110,000
10	Igaur	Future Industrial	Industrial	M-1	4.6	70,132	0.35	Estimated	77,900
11	Patel	Future Industrial	Industrial	M-1	0.7	10,672	0.35	Estimated	11,900
-----	Caltrans Remnant	Future Industrial	-----	-----	6.9	105,197	0.35	Estimated	116,800
Subtotal					83.0	1,265,418	0.35	Check Average	1,404,800
Subtotal Developable Lands (Warehousing/Distribution)					318.6	5,953,858	0.43	Average	6,609,300
Subtotal Developable Lands (Highway Commercial)					13.4	80,940	0.14	Average	98,200
Subtotal Developable Lands (Public Facilities and Internal Roadways)					104.5	-----	-----	-----	-----
Total Developable Lands					436.5	6,034,798	0.32	Average	6,707,500
Caltrans I-5 Fee Title R/W					37.9	-----	-----	-----	-----
Grand Total					474.4	-----	-----	-----	-----

Notes:
 1. Net acreage used in order to estimate Building Square footage information and / or calculate the FAR.
 2. Internal Roadways include ASI Drive, Metro Air Parkway and Power Line Road.
 3. Caltrans I-5 Fee Title lands included in the land proposed for annexation to the City of Sacramento
 4. Sq-Ft for building coverage 1) based on the site plan for Applicant lands and 2) calculated based on an average FAR for Future Industrial Lands.
 5. Application of a 11% factor applied to the industrial lands and 21% added to the retail / commercial lands to arrive at the planning level estimated totals.



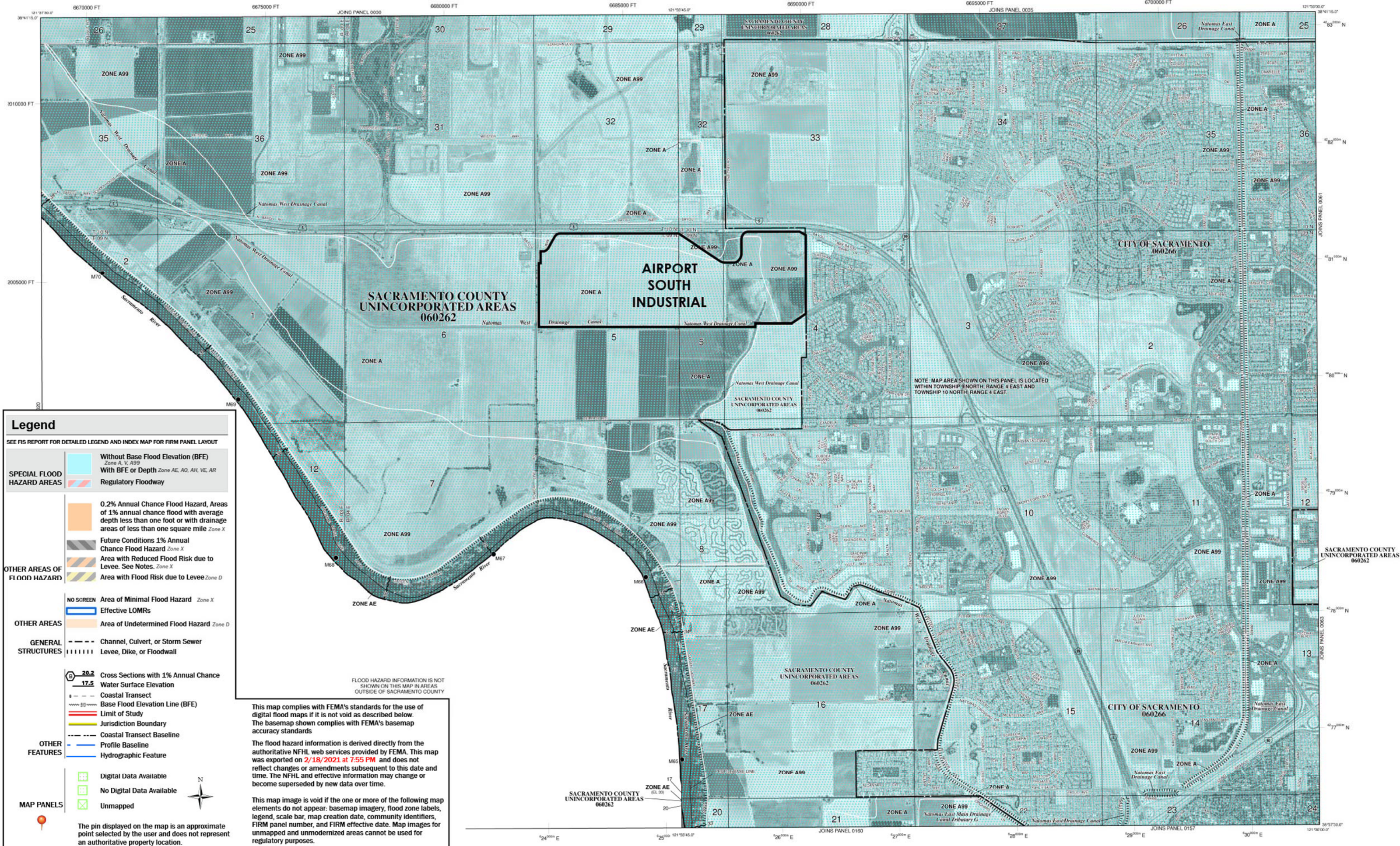
WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 3301 C St, Bldg. 100-B
 Sacramento, CA 95816
 Tel 916.341.7760
 Fax 916.341.7767

EXHIBIT C
Airport South Industrial
Land Use Summary
 20-Jun-22

Site Plan Lot Number	Land Owner	Proposed Land Use	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands							
1	NorthPoint / AKT Investments	Warehouse Distribution	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	53.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	34.4	696,260	0.46	Calculated	772,900
4	NorthPoint / AKT Investments	Warehouse Distribution	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	<u>45.4</u>	<u>704,320</u>	0.36	Calculated	<u>781,800</u>
Subtotal Warehouse			235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	<u>1.3</u>	<u>4,050</u>	0.07	Calculated	<u>5,000</u>
Subtotal Retail Commercial			13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Detention Basin	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Detention Basin	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Detention Basin	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Detention Basin	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	<u>0.4</u>	-----	-----	-----	-----
Subtotal Public Facilities			89.2	-----	-----	-----	-----
-----	NorthPoint / AKT Investments	Internal Roadways	<u>15.3</u>	-----	-----	-----	-----
Subtotal Internal Roadways			15.3	-----	-----	-----	-----
Total for Applicant Sponsored Lands			353.5	4,769,380.0	0.31	Average	5,302,700.0
Future Industrial Lands							
8	Cayocca	Future Industrial	64.3	980,318	0.35	Estimated	1,088,200
9	Campbell	Future Industrial	6.5	99,099	0.35	Estimated	110,000
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Subtotal			83.0	1,265,418	0.35	Check Average	1,404,800
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Subtotal Developable Lands (Public Facilities and Internal Roadways)			104.5	-----	-----	-----	-----
Total Developable Lands			436.5	6,034,798	0.32	Average	6,707,500
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Grand Total			474.4	-----	-----	-----	-----

Notes:

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5. Application of a 11% factor applied to the industrial lands and 21% added to the retail / commercial lands to arrive at the planning level estimated totals.



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

- 20.2
- 17.5

OTHER FEATURES

- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF SACRAMENTO COUNTY

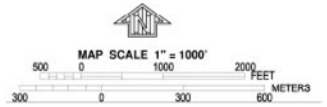
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/18/2021 at 7:55 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

EXHIBIT D
FEMA FIRM MAP
AIRPORT SOUTH INDUSTRIAL

SACRAMENTO COUNTY, CALIFORNIA + INCORPORATED AREAS,
PANELS 40 + 45 OF 705

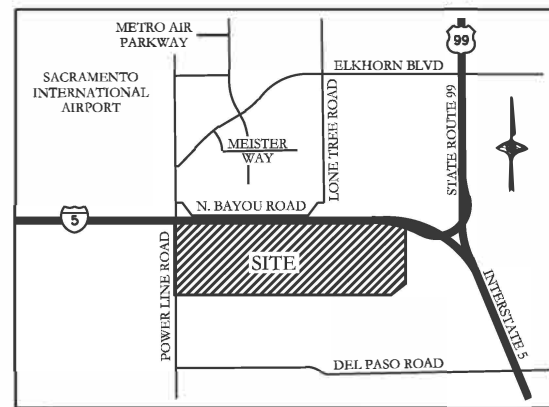
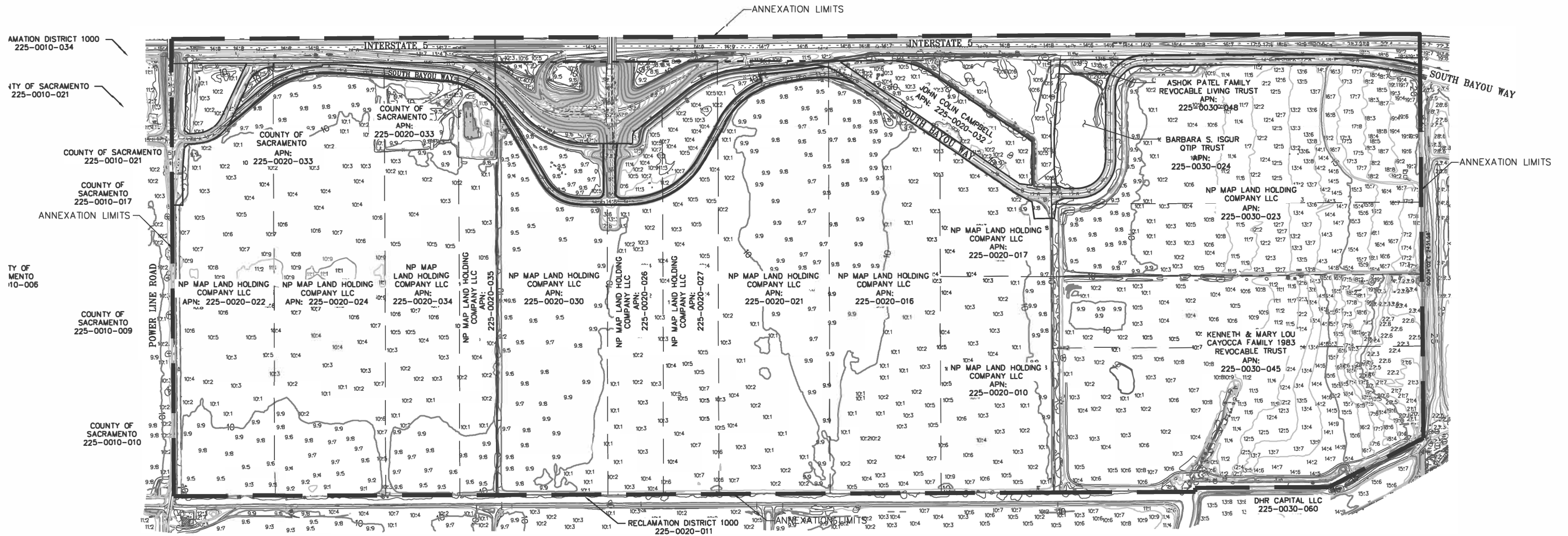


TOPOGRAPHIC EXHIBIT AIRPORT SOUTH INDUSTRIAL

CITY OF SACRAMENTO, CALIFORNIA

AUGUST 2, 2022

EXHIBIT F



VICINITY MAP
NOT TO SCALE

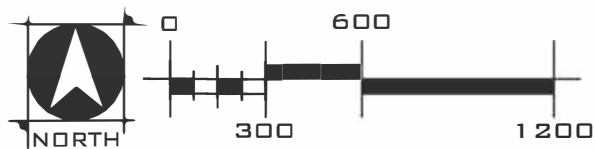


EXHIBIT G



**METRO AIR PARK
Public Facilities Master Plan
Volume 1
Final Report – Revision 1
Public Review Draft – March 2, 2004
(Updated to 2003 Construction Costs)**

Originally Adopted by the County of
Sacramento Board of Supervisors
September 26, 2000

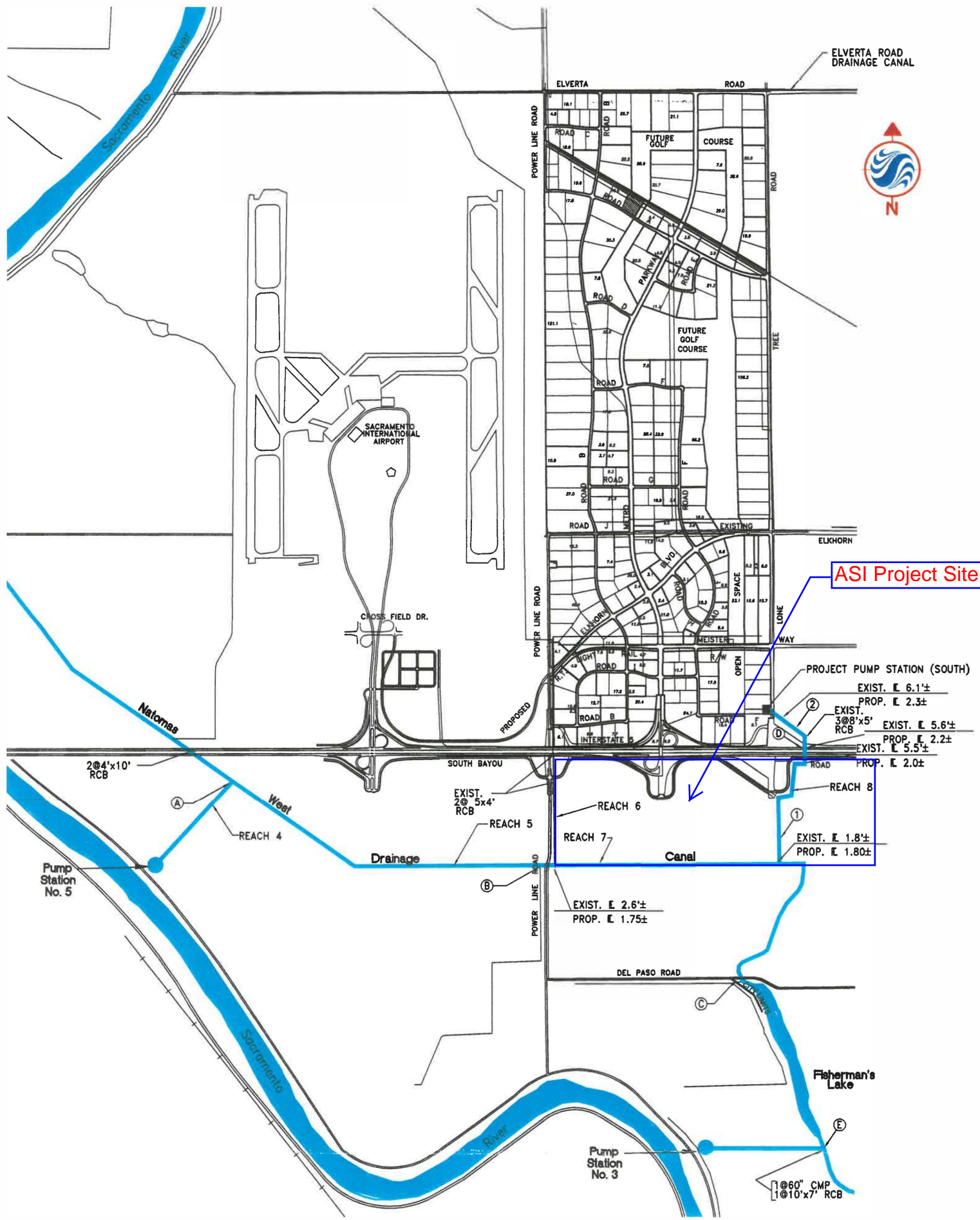
Prepared for:

County of Sacramento

Prepared by:

Stantec Consulting Inc.
2590 Venture Oaks Way
Sacramento, CA 95833
(916) 569-2500

February 2004
844 71010



ASI Project Site

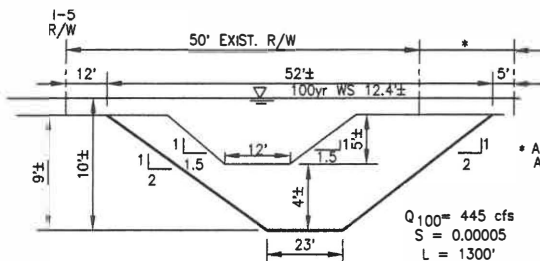
PROJECT PUMP STATION (SOUTH)
 EXIST. E. 6.1±
 PROP. E. 2.3±
 EXIST. 3@8'x5' RCB
 EXIST. E. 5.6±
 PROP. E. 2.2±
 EXIST. E. 5.5±
 PROP. E. 2.0±

REACH 8
 EXIST. E. 1.8±
 PROP. E. 1.80±

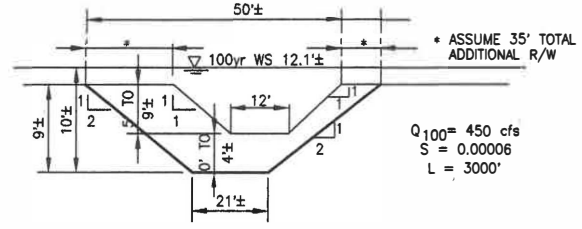
EXIST. E. 2.6±
 PROP. E. 1.75±

1@60" CMP
 1@10'x7' RCB

- LEGEND:**
- (A) EXIST. 2-45" RCP, REPLACE W/ 3-84" RCP WITH ENTRANCE HEADWALL.
 - (B) EXIST. 66" CMP, REPLACE W/ 3-84" RCP
 - (C) EXIST. 60" CMP, REPLACE W/ 3-84" RCP
 - (D) EXIST. 5-8'x5' RCB, ADD 2-78" RCP.
 - (E) REMOVE 60" CMP, 10'x7' RCB AND DIRT EMBANKMENT. CONSTRUCT RAILROAD FLATCAR BRIDGE OVER CANAL OPENING.
- ① IMPROVE REACH 8 SOUTH BY INCREASING DEPTH AN AVERAGE OF 2.0 FT, INCREASING WIDTH AN AVERAGE OF 9 FT, AND RECONSTRUCTING WITH 2:1 SIDE SLOPES FOR 3900 LF.
 - ② IMPROVE REACH 8 NORTH BY INCREASING THE DEPTH AN AVERAGE OF 4.0 FT, INCREASING WIDTH AN AVERAGE OF 4.0 FT, AND RECONSTRUCTING WITH 2:1 SIDE SLOPES FOR 1300 LF.



REACH 8 NORTH



REACH 8 SOUTH

Drafted by: C. SKINNER
 Designed by: D. JABBOUR
 Checked by: D. JOHNSON
 Scale: N.T.S.

OFF-SITE
 DRAINAGE IMPROVEMENTS

METRO AIR PARK



Stantec Consulting Inc. Tel. 916.569.2500
 2590 Venture Oaks Way Fax. 916.921.9274
 Sacramento, CA 95833-3288 www.stantec.com

EXHIBIT
 D-2

G. OFF-SITE DRAINAGE FACILITIES

1. Introduction and Background

The purpose of this section of the report is to identify the proposed off-site drainage facility improvements and the Airport/Natomas Central Mutual Water Company (NCMWC) irrigation pump for the Metro Air Park Special Planning Area. The costs, as developed herein, are based on the off-site drainage improvements identified on the Off-Site Drainage Improvements exhibit D-2. The improvements for offsite drainage south of the plan area include upgrading Pump Station No. 3; widening, deepening and flattening the side slopes for canal Reach 8; replacing existing culverts at the Reach 4/5 confluence, Power Line Road/West Drain Canal, Del Paso Road/West Drain Canal, inlet to Pumping Plant No. 3/Fishermans Lake; and adding culverts at I-5/Reach 8.

2. Existing Facilities

The existing drainage facilities are shown on exhibit D-2 at the end of this section of the report. All existing off-site drainage facilities will be improved as described in each project description.

3. Proposed Off-Site Drainage Facilities

The off-site drainage improvements are based on maintaining the pre-project stages of all drainage facilities downstream from the project. This will be accomplished by detaining 50% of the increase in on-site project flows and improving Reach 8, and replacing and upsizing some existing culverts as identified in Exhibit D-2. Pump Station No. 3, which will convey project flows to the Sacramento River, has been reconstructed with a new parallel outfall to the Sacramento River with a total capacity of 280 CFS. See the On-Site Facilities section of this report for a description of the on-site improvements.

Currently, a portion of the project drains to the southwest through box culverts under I-5 near the Power Line Road intersection. Since the existing ground at this location is below the 100-year water surface elevation, the project will be isolated from canal Reach No. 6 which also drains the SIA. The project flows will be directed to the southeast corner of the project to be discharged by the on-site pump station into Reach No. 8. The project flows will be limited to 80 cfs in the initial project phase in order to maintain existing stages off-site. Improvements to off-site culverts at Power Line Road/West Drain Canal, Reach 4/5 intersection and Del Paso Road/West Drain Canal, replacement of existing culvert at Fishermans Lake/Pump Station No. 3 inlet, are proposed as future phase improvements.

The off-site drainage improvements will be phased based on the need to increase discharge capacity of the on-site pump station. The initial Phase project(s) will discharge at a rate not to exceed 80 cfs, which is sufficient capacity for approximately a 30% level of development of MAP. Based on this premise, the off-site drainage improvements for the southern shed will be phased as follows:

Phase 1A

1. Fair Share Contribution – Pump #3
2. Airport/NCMWC Irrigation Pump.
3. Box Culvert and add 50 cfs pump.

Phase 1C

1. No offsite drainage improvements proposed

Phase 2

1. Upsize culverts at Del Paso Road and West Drain Canal.
2. Upsize culverts at Power Line Road and West Drain Canal.
3. Upsize culverts at the Reach 4/5 confluence.

Phase 3

1. Widen and deepen Reach No. 8 including right-of-way acquisition and two new culverts under I-5.

4. Proposed Off-Site Drainage Projects

Airport/NCMWC Irrigation Pump

RD1000-8 Install an irrigation pump and drainage ditch south of I-5 on the airport property.
(Phase 1A)
(Initial Bond)

Del Paso Road Culvert

RD1000-1 Replace and upsize culverts at Del Paso Road and West Drain Canal
(Phase 2)
(Fee @ 20% development)

Power Line Road Canal

RD1000-2 Replace and upsize culverts at Power Line Road and Canal Reach 5/7
(Phase 2)
(Fee @ 20% development)

Canal Reach 4/5 Culverts

RD1000-3 Replace and upsize culverts between canal Reach No. 5 and Canal Reach No. 4
(Phase 2)
(Fee @ 20% development)

Pump Station No. 3

RD1000-5 The RD-1000 Pump Station #3 has been reconstructed with a new parallel outfall
(Phase 1A) to the Sacramento River with a total capacity of 280 CFS. The existing pumps will
be utilized and an additional pump will be added.



GOODWIN CONSULTING GROUP



**METRO AIR PARK
SPECIAL PLANNING AREA**

PUBLIC FACILITIES FINANCING PLAN

*Prepared for the Hearing of the
Board of Supervisors
On June 2, 2020*

JUNE 2, 2020

Table A-3
Metro Air Park Special Planning Area
Public Facilities Financing Plan
Remaining Facility Costs (2020\$) /1

Project #	Project Description	% of EDU Absorption	Public or Private Obligation	Roadway	Freeway	Drainage	Sewer (Non-SASD)	Water	Miscellaneous	Total Cost
I5-X1	MAP Interchange Phase 1	5%	Public	\$0	\$8,540,455	\$0	\$0	\$0	\$0	\$8,540,455
I5-X2	MAP Interchange Phase 1	10%	Public	\$0	\$16,846,689	\$0	\$0	\$0	\$0	\$16,846,689
ER & EB Paving	Elverta and Elkhorn AC Overlay LTR to SR 99	12%	Public	\$222,600	\$0	\$0	\$0	\$0	\$0	\$222,600
PLR-1.5a	Power Line Rd 3 lanes Skyking to Road D (SD)	15%	Public	\$7,560,000	\$0	\$1,365,000	\$0	\$0	\$0	\$8,925,000
I5-2a	MAP Interchange Phase 2 -N/B Aux Lanes SR 99 to MAP	20%	Public	\$0	\$1,470,000	\$0	\$0	\$0	\$0	\$1,470,000
MP-1.2	Metro Pwky I-5 to Elkhorn Blvd - Add 2 Lanes	20%	Private	\$3,461,374	\$0	\$0	\$0	\$0	\$0	\$3,461,374
EB-1.2	Power Line Rd to Lone Tree Rd	20%	Private	\$877,571	\$0	\$0	\$0	\$0	\$0	\$877,571
RD1000-2	Power Line Rd Culvert	20%	Private	\$0	\$0	\$1,426,830	\$0	\$0	\$0	\$1,426,830
RD1000-3	Canal Reach 4/5 Culverts	20%	Private	\$0	\$0	\$222,253	\$0	\$0	\$0	\$222,253
DRN-11.2	Trash Capture Screening at Pump Station	20%	Private	\$0	\$0	\$525,000	\$0	\$0	\$0	\$525,000
DRN-10	Pump Station Upgrade (South)	30%	Private	\$0	\$0	\$1,255,584	\$0	\$0	\$0	\$1,255,584
RD1000-7	Off-site RW & Reach No. 8	30%	Private	\$0	\$0	\$2,962,052	\$0	\$0	\$0	\$2,962,052
MP-2	Metro Pwky Elkhorn Blvd to Road "A" - Add 2 Lanes	30%	Private	\$4,331,047	\$0	\$0	\$0	\$0	\$0	\$4,331,047
EB-2	Metro Pwky to Lone Tree Rd - Add 2 Lanes	30%	Private	\$2,000,539	\$0	\$0	\$0	\$0	\$0	\$2,000,539
RD1000-6	Install Pump to complete project	30%	Private	\$0	\$0	\$321,945	\$0	\$0	\$0	\$321,945
RMB-3	MAP 3rd Reimbursement for Advanced Funding	30%	Private	\$0	\$0	\$0	\$0	\$0	\$420,000	\$420,000
FS-2	Fire Station Land Purchase	30%	Public	\$0	\$0	\$0	\$0	\$0	\$47,250	\$47,250
FS-1	Fire Station Facilities	30%	Public	\$0	\$0	\$0	\$0	\$0	\$7,140,000	\$7,140,000
PLR-1	Power Line Rd I-5 Overcrossing to Elkhorn Blvd	35%	Private	\$1,380,203	\$0	\$0	\$0	\$226,215	\$0	\$1,606,418
PLR-1.5b	Power Line Rd 3 lanes Road D to Road A (SD)	40%	Public	\$2,835,000	\$0	\$630,000	\$0	\$0	\$0	\$3,465,000
I5-2b	MAP Interchange Phase 2	40%	Public	\$0	\$6,326,796	\$0	\$0	\$0	\$0	\$6,326,796
SWR-4	Lift Station Upgrade	40%	Private	\$0	\$0	\$0	\$409,748	\$0	\$0	\$409,748
DRN-11.1	Pump Station Upgrade (South)	40%	Private	\$0	\$0	\$1,464,848	\$0	\$0	\$0	\$1,464,848
ER-1	Power Line Rd to Lone Tree Rd	40%	Private	\$2,089,555	\$0	\$0	\$133,440	\$346,361	\$0	\$2,569,356
ER-2	Lone Tree Rd to SR-99	40%	Public	\$2,214,049	\$0	\$0	\$0	\$0	\$0	\$2,214,049
MW-1	Road "B" to Lone Tree Rd	45%	Private	\$1,930,285	\$0	\$376,326	\$840,717	\$485,688	\$0	\$3,633,017
WTR-7	Storage Reservoir	50%	Private	\$0	\$0	\$0	\$0	\$4,095,000	\$0	\$4,095,000
LTR-1	Meister Way to Elverta Rd	55%	Private	\$6,200,509	\$0	\$2,536,181	\$1,985,065	\$2,863,397	\$0	\$13,585,152
RA-1(east)	2 lanes MAP to LTR, MAP 4 Monum., SD, Sewer	55%	Private	\$1,075,287	\$0	\$566,814	\$990,927	\$761,342	\$0	\$3,394,371
RA-1(west)	2 lanes MAP to LTR, MAP 4 Monum., SD, Sewer	55%	Private	\$1,423,191	\$0	\$934,085	\$1,258,385	\$849,948	\$0	\$4,465,609
PLR-2	Power Line Rd Road "A" to Elverta Rd	55%	Public	\$1,995,361	\$0	\$0	\$0	\$792,248	\$0	\$2,787,609
EB-4	Power Line Rd to Lone Tree Rd	60%	Private	\$2,275,933	\$0	\$0	\$0	\$0	\$0	\$2,275,933
ER-3	Lone Tree Rd to SR-99	60%	Public	\$2,419,297	\$0	\$0	\$0	\$0	\$0	\$2,419,297
EB-5	Lone Tree Rd to SR-99	60%	Public	\$543,263	\$0	\$0	\$0	\$0	\$0	\$543,263
MP-3	Metro Pwky I-5 to Elverta Rd	60%	Private	\$3,518,298	\$0	\$0	\$0	\$0	\$0	\$3,518,298
SR99-2	SR-99/Elkhorn Blvd Inter. Widening - Stage I	60%	Public	\$0	\$7,651,128	\$0	\$0	\$0	\$0	\$7,651,128
I5-3	I-5 Main Line Lanes	64%	Public	\$0	\$10,604,935	\$0	\$0	\$0	\$0	\$10,604,935
I5-4	I-5/Metro Pwky Inter. - Final Stage	84%	Public	\$0	\$13,240,987	\$0	\$0	\$0	\$0	\$13,240,987
SBR-2	South Bayou Rd/Airport Blvd Intx	87%	Private	\$11,584	\$0	\$0	\$0	\$0	\$0	\$11,584
I5-5	I-5/Airport Blvd South Bound Exit Ramp	90%	Public	\$0	\$707,274	\$0	\$0	\$0	\$0	\$707,274
SR99-6	SR-99 Elkhorn Blvd Intr. - Final Stage	90%	Public	\$0	\$4,074,936	\$0	\$0	\$0	\$0	\$4,074,936
ER-4	Metro Pkwy to Lone Tree Rd	94%	Private	\$781,443	\$0	\$0	\$0	\$0	\$0	\$781,443
DPR-1	Power Line Rd to City Limits	94%	Private	\$3,002,677	\$0	\$0	\$0	\$0	\$0	\$3,002,677
PLR-3	Power Line Rd Del Paso Rd to I-5 Overcrossing	97%	Private	\$3,967,506	\$0	\$0	\$0	\$0	\$0	\$3,967,506
MP-4	Metro Pwky Road "A" to Elverta Rd	100%	Private	\$1,795,144	\$0	\$0	\$0	\$0	\$0	\$1,795,144
T-1&T-3	RT Light Rail ROW and Station Land Purchase	100%	Public	\$0	\$0	\$0	\$0	\$0	\$462,000	\$462,000
T-2	Light Rail (Construction Contrib.)	100%	Public	\$0	\$0	\$0	\$0	\$0	\$3,045,000	\$3,045,000
Subtotal				\$57,911,716	\$69,463,200	\$14,586,919	\$5,618,282	\$10,420,200	\$11,114,250	\$169,114,567
	Overall Project Cost Contingency (10.0%)			\$5,791,172	\$6,946,320	\$1,458,692	\$561,828	\$1,042,020	\$1,111,425	\$16,911,457
Total				\$63,702,888	\$76,409,520	\$16,045,611	\$6,180,110	\$11,462,220	\$12,225,675	\$186,026,024

/1 Excludes facilities costs funded by the Series 2004A and Series 2007B bonds.

PRELIMINARY EARTHWORK EXHIBIT

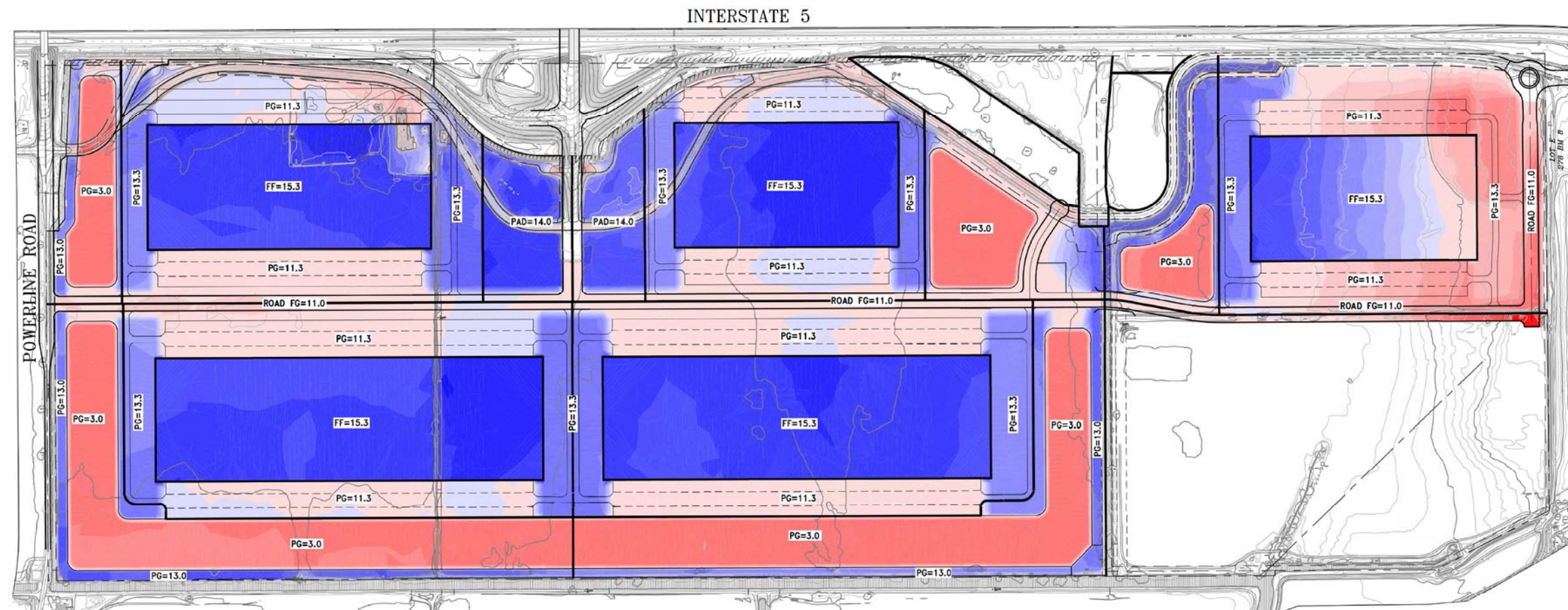
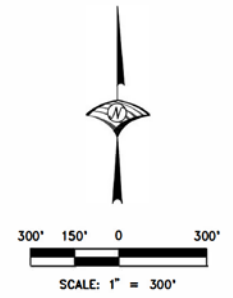
AIRPORT SOUTH INDUSTRIAL

NORTHPOINT DEVELOPMENT

SACRAMENTO COUNTY CALIFORNIA

MAY 11, 2022

EXHIBIT J



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-16.000	-14.667	Red
2	-14.667	-13.333	Red
3	-13.333	-12.000	Red
4	-12.000	-10.667	Red
5	-10.667	-9.333	Red
6	-9.333	-8.000	Red
7	-8.000	-6.667	Red
8	-6.667	-5.333	Red
9	-5.333	-4.000	Red
10	-4.000	-2.667	Red
11	-2.667	-1.333	Red
12	-1.333	0.000	Red
13	0.000	0.500	Light Blue
14	0.500	1.000	Light Blue
15	1.000	1.500	Light Blue
16	1.500	2.000	Light Blue
17	2.000	2.500	Light Blue
18	2.500	3.000	Light Blue
19	3.000	3.500	Light Blue
20	3.500	4.000	Light Blue
21	4.000	4.500	Light Blue
22	4.500	5.000	Light Blue
23	5.000	5.500	Light Blue
24	5.500	6.000	Light Blue

NP MAP LAND
HOLDING CO LLC
225-0020-014
225-0020-015

NATOMAS BASIN CONSERVANCY
2250020-012
225-0020-013

EARTHWORK (UNADJUSTED)			
	CUT (CY)	FILL (CY)	OVERALL (CY)
WEST	615,180	864,848	249,663 (IMPORT)
EAST	184,968	95,275	89,693 (EXPORT)
OVERALL	800,148	960,118	159,970 (IMPORT)

EARTHWORK (ADJUSTED) (15% ADDED TO FILL)			
	CUT (CY)	FILL (CY)	OVERALL (CY)
WEST	615,180	994,569	379,389 (IMPORT)
EAST	184,968	109,567	75,402 (EXPORT)
OVERALL	800,148	1,104,136	303,988 (IMPORT)



J:\3000-1\3909_Airport_South_Ind_CAD\Studies\Grading\Exhibits\J-Exhibit-EARTHWORK-AS.dwg 5/12/2022 8:11 AM Philip Roberts

EXHIBIT K.1 - SCHEMATIC BASIN DRAINAGE PLAN AIRPORT SOUTH INDUSTRIAL

CITY OF SACRAMENTO, CALIFORNIA

JULY 17, 2023
SHEET 1 OF 2

- NOTES:**
1. THIS EXHIBIT IDENTIFIES THE PROPOSED DETENTION BASINS, PROPOSED PUMP STATION LOCATION, GENERAL GRADING CROSS-SECTIONS AND OTHER RELATED DRAINAGE FACILITIES FOR PROJECT DEVELOPMENT.
 2. THE DRAINAGE FACILITIES IDENTIFIED ARE PROPOSED IN ORDER TO MITIGATE IMPACTS TO THE EXISTING 100-YEAR FLOODPLAIN WITH SITE DEVELOPMENT.
 3. THE ON-SITE 10-YEAR DRAINAGE SYSTEM AND THE ASSOCIATED CONNECTIONS TO THE DETENTION-RETENTION BASINS WILL BE DETAILED WITH FUTURE DESIGN.
 4. ALL HATCHED LANDSCAPED AREAS ARE APPROXIMATE.
 5. CITY & RD-1000 ACCESS AREAS, ROADS AND BUFFERS FROM EXISTING RD-1000 CANALS AND DITCHES ARE TIED WITH THE FUTURE DESIGN-LEVEL DRAINAGE STUDY.

ELEVATIONS REPORTED ARE IN REFERENCE TO THE CITY OF SACRAMENTO DATUM (COSD).

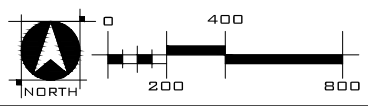
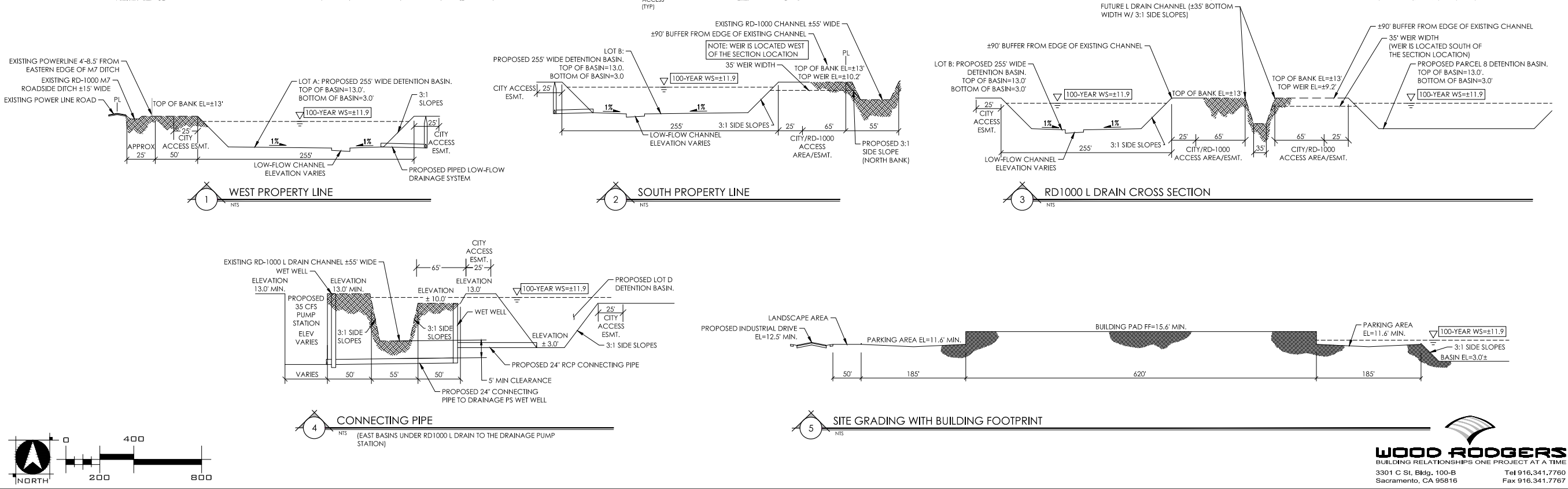
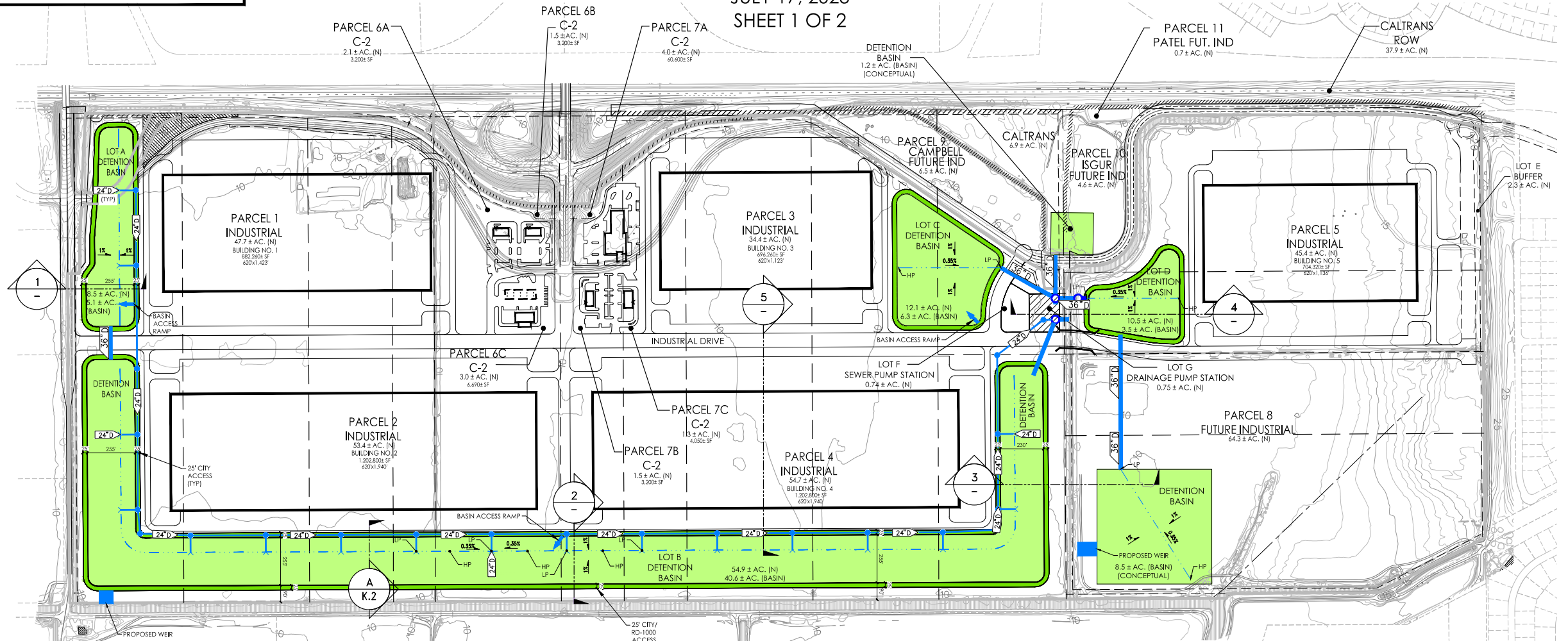


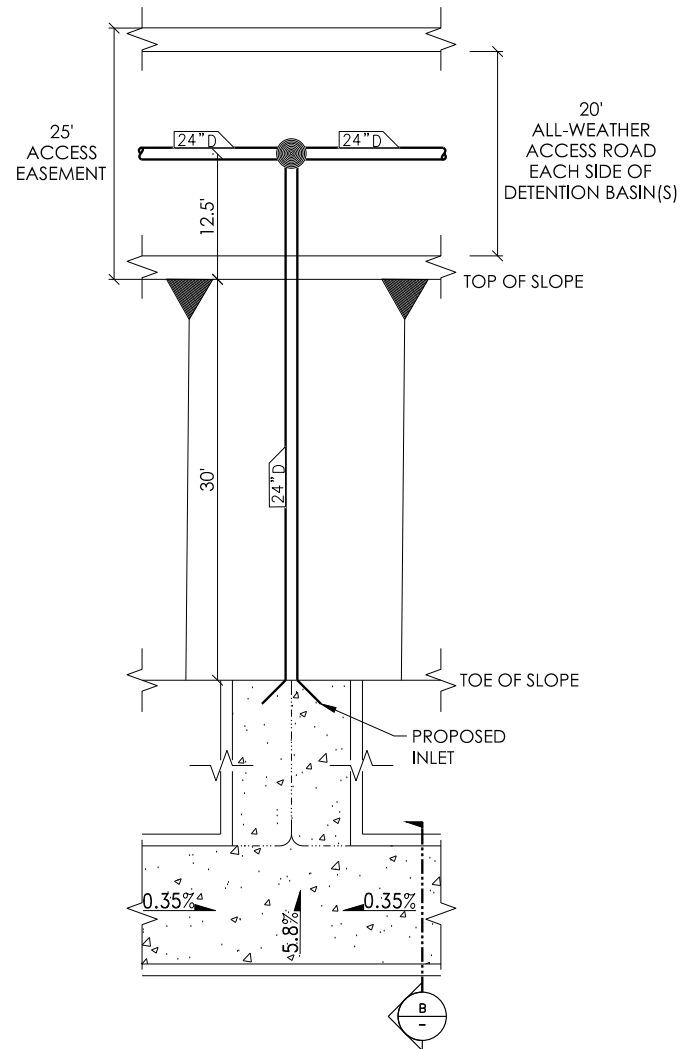
EXHIBIT K.2 - SCHEMATIC BASIN DRAINAGE DETAILS

AIRPORT SOUTH INDUSTRIAL

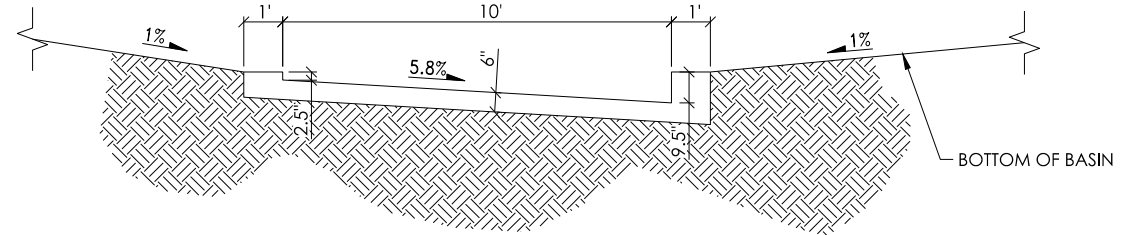
CITY OF SACRAMENTO, CALIFORNIA

JULY 19, 2023

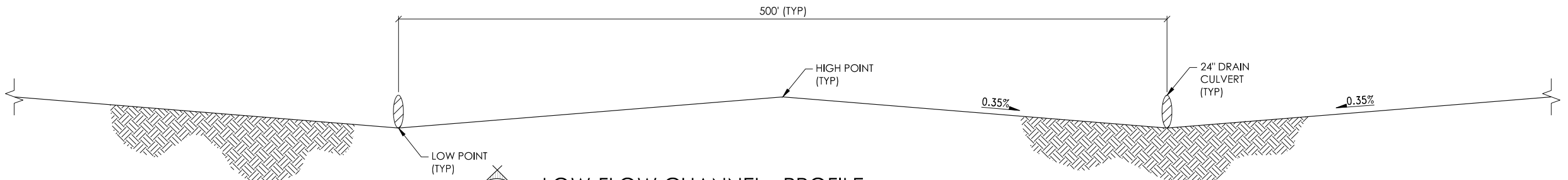
SHEET 2 OF 2



A LOW-FLOW CHANNEL - PLAN
NTS



B LOW-FLOW CHANNEL - SECTION
NTS

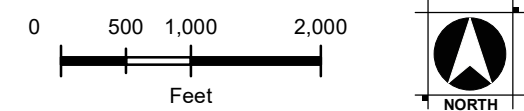
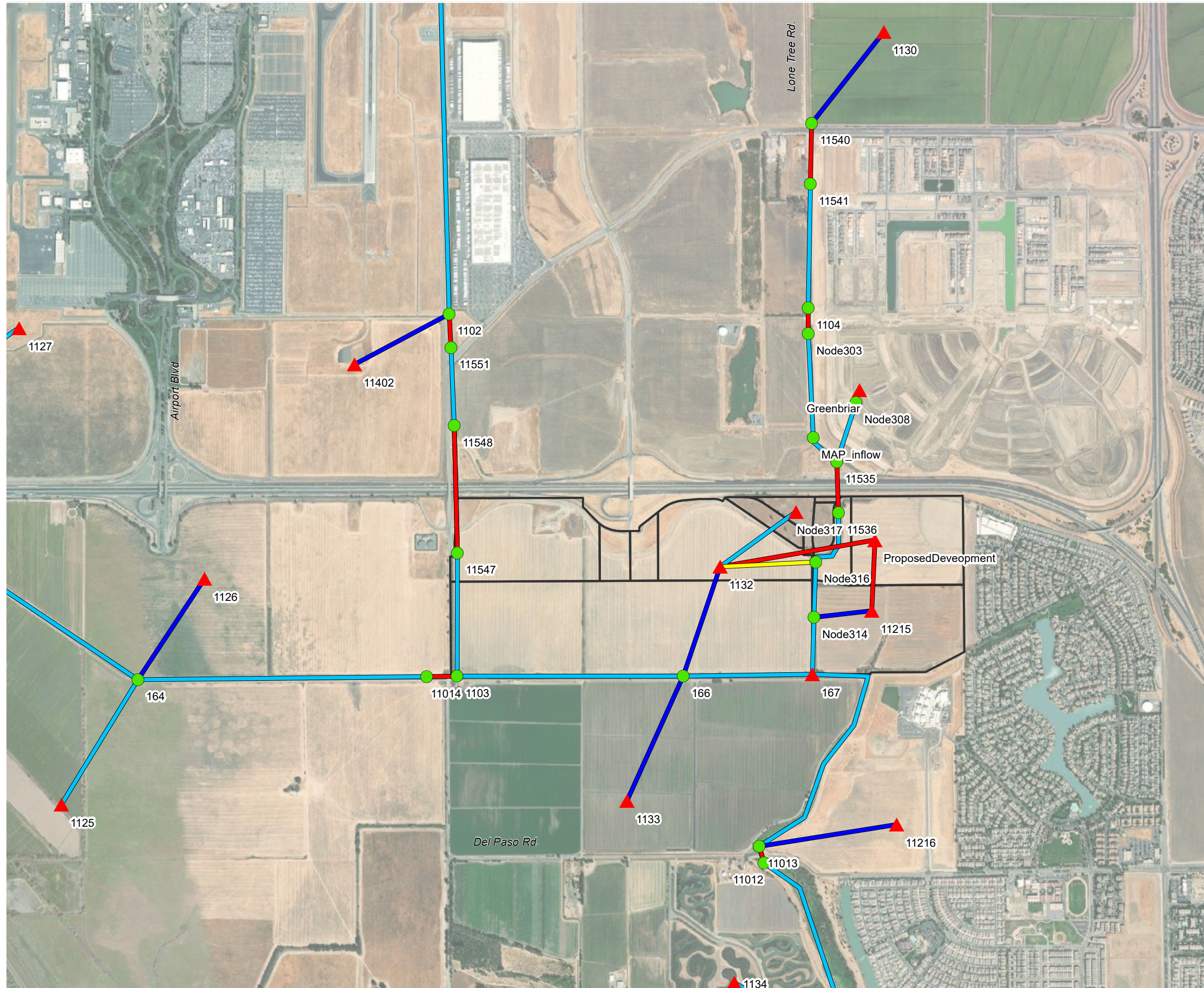


C LOW-FLOW CHANNEL - PROFILE
NTS

EXHIBIT L
POST-PROJECT DRAINAGE SCHEMATIC
 AIRPORT SOUTH INDUSTRIAL
 SACRAMENTO COUNTY, CA
 AUGUST 2022

Legend

- Model Node
- ▲ Model Storage Node
- Channel
- Pipe
- Pump
- Weir
- Post-Project Lots



PROJECT: AIRPORT SOUTH INDUSTRIAL
LOCATION: COUNTY OF SACRAMENTO, CA
SUBJECT: 100-YEAR 10-DAY HYDRAULICS RESULTS
METHOD: XPSWMM v2020.1.1

Node Name	X Coordinate	Y Coordinate	Pre-Project			Post-Project		
			Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)	Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)
1921	6701916.66	2004257.95	-0.08	9.52	57.0	-0.08	9.53	57.0
1922	6701624.10	2011496.89	0.92	10.35	16.0	0.92	10.35	16.0
1923	6703130.60	2007702.79	-0.08	8.46	17.0	-0.08	8.46	17.0
1924	6702690.10	2005424.37	0.42	9.15	13.0	0.42	9.15	13.0
1925	6702136.84	1999557.09	-0.08	11.71	23.0	-0.08	11.70	23.0
1926	6701593.31	1991967.38	-3.58	5.01	18.0	-3.58	5.01	18.0
1927	6694895.53	1991140.36	-1.08	8.09	25.0	-1.08	8.09	25.0
1928	6691018.45	1998671.14	0.92	13.26	41.0	0.92	13.26	41.0
1	6697467.24	1982193.45	12.42	14.88	923.2	12.42	14.88	923.4
2	6673711.05	2027324.33	12.42	13.21	113.1	12.42	13.21	113.1
3	6685494.12	1996712.80	12.42	13.71	280.4	12.42	13.71	280.5
4	6679425.72	2052307.24	12.42	13.78	306.4	12.42	13.78	306.5
5	6671635.28	2004571.64	12.42	12.96	57.0	12.42	12.96	57.0
6	6708705.53	2016096.61	12.42	13.44	180.2	12.42	13.44	180.3
8	6711937.31	1998357.30	12.42	14.32	569.8	12.42	14.32	569.6
11	6697659.50	1981079.25	11.42	12.79	923.2	11.42	12.79	923.4
12	6673078.29	2027322.22	11.42	11.68	113.1	11.42	11.68	113.1
13	6685678.64	1996093.72	11.42	12.04	280.4	11.42	12.04	280.5
14	6678789.41	2052301.58	11.42	12.07	306.4	11.42	12.07	306.5
15	6671002.51	2004569.54	11.42	11.55	57.0	11.42	11.55	57.0
16	6708715.64	2015692.64	11.42	11.83	180.2	11.42	11.83	180.3
18	6712036.66	1997903.14	11.42	12.40	569.8	11.42	12.40	569.6
131	6693303.82	2058330.56	26.67	26.67	0.0	26.67	26.67	0.0
132	6693334.06	2053984.36	21.17	25.64	134.2	21.17	25.64	134.2
133	6692098.57	2046143.02	18.62	23.12	34.4	18.62	23.12	34.8
134	6692417.38	2039856.64	17.32	24.22	82.5	17.32	24.22	82.5
135	6677836.11	2048410.66	21.17	22.51	58.9	21.17	22.51	58.9
136	6685518.24	2049537.89	16.17	19.26	155.2	16.17	19.26	155.1
137	6681254.21	2034305.96	21.17	23.26	127.9	21.17	23.26	127.9
138	6678229.42	2030736.90	16.17	20.15	57.5	16.17	20.15	58.6
139	6675529.59	2026747.40	16.17	20.05	9.7	16.17	20.05	10.0
140	6678138.60	2024293.08	16.17	20.05	26.4	16.17	20.05	26.6
141	6681469.74	2031058.93	21.17	22.30	59.8	21.17	22.30	59.8
142	6684492.47	2037443.95	18.17	19.80	153.0	18.17	19.80	153.1
143	6690796.26	2031056.28	16.17	18.67	62.0	16.17	18.67	63.1
145	6687702.54	2040577.67	16.17	22.11	182.5	16.17	22.00	180.3
146	6689088.47	2046165.23	16.17	22.90	201.1	16.17	22.67	193.8
147	6689963.28	2053702.30	19.17	21.71	42.2	19.17	21.71	42.3
148	6688785.96	2057044.14	18.77	20.09	112.0	18.77	20.09	112.0
149	6693086.90	2061138.35	29.17	30.70	27.9	29.17	30.70	27.9
150	6686783.28	2028991.83	21.17	23.33	54.8	21.17	23.33	54.8
1119	6676472.48	2024302.37	16.17	20.33	13.8	16.17	20.33	13.8
1120	6672710.77	2019208.92	22.42	23.81	35.3	22.42	23.81	35.3
1121	6670662.74	2013163.96	16.17	19.43	48.0	16.17	19.43	48.0
1122	6672968.85	2008888.60	12.67	16.12	43.1	12.67	16.10	43.9
1123	6668968.88	2009017.49	12.67	15.67	19.3	12.67	15.65	19.9
1124	6672196.81	2005908.64	12.17	14.82	8.4	12.17	14.75	8.4
1125	6676897.98	2001913.73	11.67	14.83	71.6	11.67	14.80	78.1
1126	6678996.54	2005221.41	11.67	14.38	166.2	11.67	14.27	152.8
1127	6676277.50	2008899.62	12.17	15.04	48.7	12.17	15.02	48.0
1128	6680737.02	2018729.92	19.17	20.07	59.4	19.17	20.07	59.4
1130	6688959.32	2013240.81	17.37	17.92	88.9	17.37	17.92	88.9
1132	6685195.31	2005189.58	9.98	14.18	140.1	5.98	13.84	-142.8
1133	6685193.35	2001967.77	11.17	13.97	-107.7	11.17	13.77	-98.7
1134	6686764.07	1999298.04	16.11	16.86	61.4	16.11	16.86	61.4
1136	6692234.24	1994223.28	9.17	13.59	60.6	9.17	13.59	63.7
1139	6697198.88	1986386.82	11.67	13.43	8.2	11.67	13.43	8.2
11547	6682704.88	2005601.21	6.42	14.26	82.7	6.42	14.07	87.6
11548	6682658.80	2007468.63	7.42	14.40	41.5	7.42	14.23	43.1
11551	6682611.69	2008612.02	7.92	14.59	83.1	7.92	14.45	85.5
11536	6688299.97	2006179.29	6.42	14.57	394.1	6.42	14.33	395.5
11563	6684738.01	2022387.93	18.11	18.11	0.0	18.11	18.11	0.0
11564	6684090.92	2022385.78	18.31	18.31	0.0	18.31	18.31	0.0
11565	6683157.52	2021053.12	23.02	23.02	0.0	23.02	23.02	0.0
11566	6687032.21	2022399.20	17.91	17.91	0.0	17.91	17.91	0.0

Exhibit M

Prepared by:
 Wood Rodgers, Inc
 1 of 5

PROJECT: AIRPORT SOUTH INDUSTRIAL
LOCATION: COUNTY OF SACRAMENTO, CA
SUBJECT: 100-YEAR 10-DAY HYDRAULICS RESULTS
METHOD: XPSWMM v2020.1.1

Node Name	X Coordinate	Y Coordinate	Pre-Project			Post-Project		
			Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)	Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)
11541	6687880.99	2011010.86	11.42	16.14	87.4	11.42	16.11	87.5
11540	6687898.83	2011899.68	7.92	17.01	88.8	7.92	16.99	88.9
11535	6688267.84	2006936.93	4.62	14.90	395.7	4.62	14.71	396.3
11542	6685658.54	2020785.29	19.82	19.82	0.0	19.82	19.82	0.0
11543	6687879.28	2021706.30	16.92	17.17	0.0	16.92	17.16	0.0
11544	6687876.94	2022410.52	13.12	17.17	-0.3	13.12	17.16	-0.3
11545	6692042.97	2022123.73	10.56	18.99	39.7	10.56	17.83	37.4
11546	6691005.45	2022378.51	14.42	17.17	-3.3	14.42	17.16	-3.2
1142	6708989.31	1996891.86	14.42	21.42	88.0	14.42	21.42	88.0
1905	6708067.97	1996039.77	14.43	21.42	0.3	14.43	21.42	0.3
1906	6702404.78	1996184.82	3.12	13.63	453.6	3.12	13.63	451.6
1907	6702423.76	1994754.76	2.82	13.53	448.8	2.82	13.54	446.1
1910	6699069.62	1990463.47	2.42	12.39	927.2	2.42	12.40	924.0
1911	6699655.38	1990690.20	2.52	12.99	520.2	2.52	13.00	518.4
1912	6700430.28	1990707.49	2.42	13.08	928.7	2.42	13.09	925.5
1913	6700902.50	1991004.57	2.52	13.34	309.8	2.52	13.35	308.8
11559	6702037.18	1991854.70	2.62	13.43	766.2	2.62	13.44	762.4
1914	6697695.15	1987897.44	2.42	11.88	1218.9	2.42	11.90	1219.2
1904	6702522.01	1992301.78	5.11	9.27	10.0	5.11	9.27	10.0
1144	6705082.68	2000020.52	0.42	3.19	10.0	0.42	3.18	10.0
1150	6694072.30	2014337.04	18.87	24.37	46.2	18.87	24.37	46.2
1151	6703017.97	2013271.23	12.37	14.89	-7.5	12.37	14.89	-7.5
11600	6704122.39	2013271.29	13.27	15.38	16.8	13.27	15.38	16.8
11601	6704468.53	2011831.52	11.92	15.96	52.8	11.92	15.96	52.7
11602	6705169.53	2011846.10	12.52	16.20	53.1	12.52	16.20	53.1
1152	6702674.33	2019415.11	13.67	16.30	66.2	13.67	16.30	66.8
1153	6700029.12	2017873.96	13.97	16.26	23.3	13.97	16.25	23.5
1154	6696945.32	2020512.39	14.67	17.14	52.7	14.67	17.13	52.7
1155	6702637.15	2025012.33	14.27	17.29	55.9	14.27	17.29	56.7
1156	6691947.60	2020468.97	15.47	17.84	122.1	15.47	17.85	55.7
1157	6690927.17	2024862.10	15.97	18.00	53.2	15.97	18.00	53.2
1159	6701974.37	2028934.97	16.17	18.92	99.9	16.17	18.92	100.1
1160	6698039.53	2036465.19	21.17	23.99	224.4	21.17	23.99	224.4
Greenbriar	6688601.37	2007991.38	5.10	16.69	47.1	5.10	16.69	47.1
1162	6697595.85	2024021.53	15.17	18.24	70.6	15.17	18.24	70.7
1164	6686346.14	2055575.25	18.57	19.26	47.0	18.57	19.26	47.0
11006	6705256.86	1993397.42	6.33	14.56	285.8	6.33	14.58	285.8
11560	6703745.07	1993629.58	5.65	13.61	273.1	5.65	13.61	273.3
11561	6704079.78	1993791.36	5.90	13.88	279.6	5.90	13.88	279.6
102	6677248.42	2027596.07	9.52	19.99	130.4	9.52	19.99	130.3
103	6679809.77	2030230.86	9.42	19.99	78.9	9.42	19.99	79.0
104	6682056.10	2032857.44	10.82	19.99	100.2	10.82	19.99	100.3
105	6686446.44	2033667.72	10.02	19.06	285.7	10.02	19.06	285.7
106	6686451.61	2032889.57	10.12	18.97	312.6	10.12	18.97	312.6
107	6692570.80	2032922.10	9.02	18.64	279.4	9.02	18.64	279.3
108	6685988.31	2030686.37	9.42	18.98	54.8	9.42	18.98	54.8
110	6686428.44	2037962.53	10.52	19.18	124.3	10.52	19.18	123.0
111	6686405.66	2041811.97	11.82	19.19	195.9	11.82	19.19	194.6
112	6687717.28	2045895.95	11.42	19.20	223.8	11.42	19.20	222.5
113	6687457.22	2050001.81	6.12	19.20	275.8	6.12	19.20	276.1
114	6684310.03	2052180.86	8.22	19.17	297.5	8.22	19.17	297.4
115	6681598.01	2052983.92	5.92	19.09	76.0	5.92	19.09	76.0
116	6687106.00	2057225.37	9.42	19.23	168.4	9.42	19.23	168.4
117	6691078.87	2060138.34	11.42	19.23	27.7	11.42	19.23	27.7
118	6691471.31	2058312.51	21.82	24.78	-12.4	21.82	24.78	-12.4
119	6691501.55	2053966.31	18.42	24.78	116.6	18.42	24.78	116.6
120	6691967.86	2045734.17	15.32	22.18	130.6	15.32	22.16	130.7
121	6691975.59	2040302.07	13.02	21.52	126.7	13.02	21.51	126.7
122	6686407.87	2036551.98	9.82	19.14	-146.6	9.82	19.14	-146.7
123	6688851.83	2055228.84	8.92	19.23	41.5	8.92	19.23	41.5
124	6688979.11	2050018.35	8.72	19.23	156.9	8.72	19.23	156.9
126	6678075.73	2050225.66	9.42	19.10	58.5	9.42	19.10	58.5
129	6674877.63	2028272.57	9.42	19.04	39.0	9.42	19.04	39.0
160	6677284.32	2025987.58	9.42	20.01	81.8	9.42	20.01	81.9
161	6669641.69	2011610.17	10.42	15.70	48.0	10.42	15.67	48.0

PROJECT: AIRPORT SOUTH INDUSTRIAL
LOCATION: COUNTY OF SACRAMENTO, CA
SUBJECT: 100-YEAR 10-DAY HYDRAULICS RESULTS
METHOD: XPSWMM v2020.1.1

Node Name	X Coordinate	Y Coordinate	Pre-Project			Post-Project		
			Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)	Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)
162	6670785.33	2009023.72	9.95	14.93	67.1	9.95	14.86	67.9
163	6674172.90	2006327.00	8.76	14.59	99.1	8.76	14.51	104.9
164	6678019.04	2003741.36	7.22	14.37	179.7	7.22	14.26	180.6
165	6674688.69	2007817.28	8.42	14.81	46.6	8.42	14.75	47.2
166	6686016.31	2003758.66	4.42	14.18	399.9	4.42	13.95	363.5
167	6687910.95	2003820.84	4.52	14.18	465.6	4.52	13.97	463.2
168	6688531.46	1998284.52	4.42	13.92	482.8	4.42	13.76	476.5
169	6689142.07	1997098.90	4.52	13.92	240.4	4.52	13.76	233.2
170	6694277.48	1993935.82	4.42	13.33	288.8	4.42	13.32	278.8
171	6694116.53	1993247.67	4.52	13.31	357.2	4.52	13.30	342.8
172	6695135.41	1990424.78	3.72	12.20	415.4	3.72	12.22	403.7
173	6697588.53	1988717.28	2.52	12.15	304.9	2.52	12.17	305.0
174	6697518.77	1982734.38	0.42	11.14	67.0	0.42	11.17	67.0
176	6702431.57	1992881.17	2.72	13.45	446.2	2.72	13.46	443.6
177	6702409.77	1998653.56	3.42	13.70	460.6	3.42	13.73	458.9
178	6711500.42	1998792.15	0.42	13.52	81.0	0.42	13.52	81.0
179	6702417.25	1999268.40	4.71	13.82	930.5	4.71	13.83	931.3
182	6695313.50	2011927.64	17.12	19.13	46.2	17.12	19.13	46.2
183	6702364.75	2004262.33	5.12	14.54	856.5	5.12	14.54	856.8
1916	6702394.10	2001331.15	4.87	14.05	859.9	4.87	14.06	858.5
184	6702276.83	2009088.04	5.37	15.00	626.2	5.37	15.00	625.0
185	6702236.37	2013581.58	5.55	15.23	528.9	5.55	15.23	528.1
187	6708338.73	2016117.90	5.42	15.20	28.0	5.42	15.20	28.0
188	6700841.46	2019409.18	6.37	15.82	690.3	6.37	15.81	689.3
189	6700838.64	2022358.64	7.09	16.89	610.7	7.09	16.88	610.1
190	6700804.27	2025006.39	7.42	17.11	307.1	7.42	17.10	307.1
191	6697607.16	2022378.46	7.58	17.05	354.8	7.58	17.04	353.7
192	6694360.26	2022364.20	5.92	17.12	156.1	5.92	17.11	156.1
193	6692953.43	2024916.08	6.92	17.17	263.3	6.92	17.16	262.5
194	6692924.23	2030254.86	7.32	17.66	315.7	7.32	17.65	313.2
195	6700777.52	2027471.32	9.42	18.25	286.2	9.42	18.25	286.2
196	6692928.64	2032931.33	7.62	17.84	296.1	7.62	17.83	295.4
197	6702211.10	2015951.64	5.78	15.34	519.0	5.78	15.35	518.1
198	6697251.58	2035352.29	9.52	18.81	223.9	9.52	18.81	223.9
1101	6682361.37	2017386.71	9.42	16.02	55.7	9.42	16.03	55.7
1102	6682584.78	2009105.80	8.42	15.76	83.3	8.42	15.70	85.2
1103	6682699.77	2003794.43	5.58	14.20	265.9	5.58	14.00	265.7
1104	6687849.11	2009190.65	9.69	15.66	85.9	9.69	15.62	86.1
1106	6672162.11	2004448.98	5.92	14.53	19.0	5.92	14.45	19.0
1108	6686035.93	1996995.28	4.42	13.66	-292.4	4.42	13.48	-292.4
11007	6704035.61	1998677.33	2.92	13.71	743.1	2.92	13.72	740.9
1999	6697397.38	2033723.34	22.42	22.42	0.0	22.42	22.42	0.0
11008	6694699.51	1990800.03	4.42	13.25	178.9	4.42	13.26	171.9
11010	6693265.07	1995951.98	4.52	13.38	243.2	4.52	13.35	237.7
11011	6693036.97	1996048.56	4.42	13.91	120.2	4.42	13.75	116.8
11012	6687201.87	2001056.30	4.52	13.95	468.2	4.52	13.78	464.4
11013	6687130.49	2001297.95	4.42	14.05	265.0	4.42	13.86	263.2
11014	6682253.39	2003785.91	5.59	14.20	189.6	5.59	14.00	181.4
11200	6699834.66	2012910.24	9.72	15.74	17.6	9.72	15.74	17.7
11201	6701329.20	2015337.51	14.47	15.28	37.8	14.47	15.28	37.7
11202	6707226.94	2015194.02	16.17	17.79	5.8	16.17	17.79	5.8
11203	6707153.13	2013163.04	16.17	17.98	15.1	16.17	17.98	15.1
11204	6707559.70	2010371.46	16.17	17.96	48.4	16.17	17.96	48.4
11205	6707592.86	2005029.56	10.12	17.77	69.7	10.12	17.77	69.8
11206	6710068.46	2002780.97	2.42	4.92	13.0	2.42	4.92	13.0
11215	6689136.93	2005177.69	11.01	14.19	26.0	5.98	14.03	19.5
11216	6689145.18	2001618.71	11.87	14.13	12.2	11.87	14.00	12.7
11100	6700952.01	2011786.52	9.52	15.24	58.4	9.52	15.25	58.3
11103	6702399.09	2000899.53	4.83	13.95	860.1	4.83	13.95	859.7
11105	6709017.98	1998801.48	3.42	13.56	838.0	3.42	13.56	841.2
11107	6706230.36	2006192.92	7.62	15.57	69.7	7.62	15.57	69.8
11583	6702789.92	2006171.54	7.22	15.56	-57.4	7.22	15.56	-57.5
11108	6702347.73	2006359.89	5.22	14.80	706.7	5.22	14.81	705.3
11109	6702265.36	2011824.50	5.50	15.18	584.5	5.50	15.19	583.5
11593	6702602.80	2011819.80	8.22	15.27	32.7	8.22	15.27	32.6

Exhibit M

Prepared by:
 Wood Rodgers, Inc
 3 of 5

PROJECT: AIRPORT SOUTH INDUSTRIAL
LOCATION: COUNTY OF SACRAMENTO, CA
SUBJECT: 100-YEAR 10-DAY HYDRAULICS RESULTS
METHOD: XPSWMM v2020.1.1

Node Name	X Coordinate	Y Coordinate	Pre-Project			Post-Project		
			Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)	Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)
11594	6703253.66	2011836.80	9.52	15.31	34.5	9.52	15.31	34.5
11595	6703757.54	2011832.32	9.32	15.49	42.0	9.32	15.49	42.0
11596	6705696.49	2011835.51	10.42	16.23	53.2	10.42	16.23	53.2
11597	6706180.67	2011618.70	11.92	16.41	9.3	11.92	16.41	9.3
11598	6706182.50	2011068.52	13.92	16.32	46.5	13.92	16.32	46.5
11599	6706202.66	2009732.40	14.92	17.96	43.2	14.92	17.96	43.2
11111	6705520.95	2015931.67	5.60	15.22	198.2	5.60	15.23	198.3
11400	6677242.30	2022079.78	18.42	21.54	69.5	18.42	21.54	69.5
11401	6678081.78	2020400.07	21.17	23.04	36.6	21.17	23.04	36.6
11402	6681197.71	2008365.61	12.17	16.13	72.9	12.17	16.09	74.0
11403	6674527.22	2019236.31	19.42	22.83	34.8	19.42	22.83	34.8
11404	6678861.38	2026239.52	16.17	20.40	32.1	16.17	20.40	32.1
11501	6693012.74	1990536.85	6.02	12.54	94.8	6.02	12.55	95.4
11502	6692344.26	1989407.77	11.17	13.44	89.5	11.17	13.45	89.8
11503	6693433.34	1984507.48	7.92	12.54	-8.0	7.92	12.55	-8.0
11505	6697153.46	1983755.79	15.97	17.92	1.9	15.97	17.92	1.9
11506	6696610.03	1984535.57	16.12	16.29	10.1	16.12	16.29	10.1
11508	6696353.17	1987109.50	8.42	12.24	17.8	8.42	12.25	17.8
11509	6696184.84	1989757.66	3.12	12.19	483.7	3.12	12.21	472.8
11511	6697650.32	1983834.41	1.42	11.47	1243.7	1.42	11.49	1244.9
11558	6698334.16	1985676.06	1.52	11.56	1260.7	1.52	11.58	1263.2
11512	6695633.26	1984690.92	13.37	15.01	1.6	13.37	15.01	1.6
11513	6695847.98	1985216.96	12.02	13.61	1.7	12.02	13.61	1.7
11514	6696348.27	1985240.56	11.82	13.59	11.1	11.82	13.60	11.1
11515	6697200.04	1985184.65	13.17	15.20	1.0	13.17	15.20	1.0
11516	6696352.99	1985566.12	11.62	12.93	11.7	11.62	12.94	11.7
11517	6696324.68	1985962.46	11.42	12.86	11.3	11.42	12.86	11.4
11518	6696091.92	1987702.65	7.42	12.18	17.2	7.42	12.19	17.2
11519	6696752.08	1988201.19	10.87	12.18	11.2	10.87	12.19	11.3
11520	6697367.83	1988994.52	2.72	12.16	486.5	2.72	12.18	476.2
11521	6696110.02	1988416.01	7.92	12.16	25.9	7.92	12.18	26.0
11522	6695095.23	1988282.65	10.47	12.22	4.3	10.47	12.22	4.3
11523	6696110.02	1989220.93	8.46	12.16	6.9	8.46	12.17	6.9
11524	6694551.92	1990558.11	6.77	12.21	59.2	6.77	12.23	60.8
15000	6695248.24	1989663.04	6.42	12.15	5.0	6.42	12.17	5.0
11525	6693457.10	1990547.97	5.02	14.46	102.3	5.02	14.42	103.0
11526	6694173.18	1990548.53	6.52	12.27	100.8	6.52	12.29	102.0
11527	6693727.32	1989307.20	10.47	12.27	4.9	10.47	12.27	4.9
11528	6696663.85	1988983.42	10.07	11.66	0.6	10.07	11.65	0.6
11529	6693453.94	1987607.92	8.99	12.53	6.6	8.99	12.55	6.7
11530	6694029.16	1987017.54	11.87	13.64	6.4	11.87	13.64	6.4
11531	6693482.82	1989992.57	8.54	12.52	8.1	8.54	12.53	8.2
11532	6693802.28	1990552.02	6.17	12.33	97.3	6.17	12.35	98.3
11552	6704888.97	1993696.00	6.00	13.95	281.9	6.00	13.95	282.0
11553	6709085.25	1993447.67	8.92	15.41	307.9	8.92	15.42	307.8
11554	6709126.82	1989011.64	12.12	15.78	187.9	12.12	15.79	187.9
11569	6702288.10	1991884.64	5.42	13.44	265.7	5.42	13.45	265.7
11570	6702271.21	2011600.11	5.44	15.18	587.9	5.44	15.19	586.9
11571	6702413.92	1996717.25	3.22	13.62	458.1	3.22	13.63	456.1
11572	6702432.33	1995151.01	3.02	13.53	452.3	3.02	13.54	450.2
11573	6709082.82	1990867.40	11.02	15.49	192.8	11.02	15.50	192.9
11574	6709084.91	1990629.52	11.12	15.59	190.5	11.12	15.61	190.5
11575	6709087.24	1990060.21	11.72	15.64	189.6	11.72	15.65	189.6
11576	6709096.22	1989509.27	11.82	15.72	188.8	11.82	15.73	188.8
11577	6688906.92	1997071.58	3.82	13.79	#N/A	3.82	13.62	#N/A
11578	6673527.79	2005735.06	8.42	14.59	62.5	8.42	14.51	62.4
11555	6685540.42	2033835.98	10.22	19.75	99.2	10.22	19.75	99.2
11556	6682648.88	2032593.81	10.62	19.78	99.4	10.62	19.78	99.4
11557	6676692.04	2027754.92	9.32	19.05	122.0	9.32	19.05	122.0
11580	6700854.04	2021194.78	6.62	16.89	608.9	6.62	16.88	607.9
11581	6673740.79	2006679.25	8.92	14.74	148.6	8.92	14.66	154.0
11582	6673091.08	2007106.45	9.12	14.79	74.3	9.12	14.72	77.0
1	6697556.45	1982209.22	12.42	13.77	304.0	12.42	13.77	304.0
11	6697756.12	1981144.94	11.42	12.07	304.0	11.42	12.07	304.0
8	6711970.58	1998383.16	12.42	13.53	210.2	12.42	13.53	210.2

PROJECT: AIRPORT SOUTH INDUSTRIAL
LOCATION: COUNTY OF SACRAMENTO, CA
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Node Name	X Coordinate	Y Coordinate	Pre-Project			Post-Project		
			Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)	Invert Elevation (ft, NAVD88)	Max Water Surface Elevation (ft, NAVD88)	Max Flow (cfs)
18	6712069.92	1997929.01	11.42	11.90	210.2	11.42	11.90	210.2
1201	6691951.14	2043926.51	14.52	21.78	142.5	14.52	21.78	142.5
1202	6691956.09	2042124.70	13.82	21.56	147.0	13.82	21.55	147.0
1213	6692029.77	2038180.82	12.32	21.48	266.8	12.32	21.40	266.5
11603	6691227.81	2022416.44	11.42	17.17	-5.5	11.42	17.16	-4.4
11605	6692035.91	2022488.70	8.42	17.17	37.1	8.42	17.16	37.2
11606	6692557.87	2023560.10	8.42	17.17	37.0	8.42	17.16	37.1
11607	6692963.48	2023575.41	5.92	17.13	219.9	5.92	17.13	219.7
11604	6691951.14	2022428.24	11.42	17.17	-5.2	11.42	17.16	-5.2
11003	6707015.61	1993415.03	7.47	14.88	297.6	7.47	14.89	297.5
11002	6707125.73	1993417.07	7.47	14.99	300.1	7.47	15.00	300.0
11005	6706311.35	1993414.32	7.17	14.69	290.6	7.17	14.70	290.5
11004	6706446.13	1993414.34	7.17	14.80	295.0	7.17	14.81	294.9
12132	6691672.52	2038106.36	12.21	19.30	81.3	12.21	19.30	81.2
WR1	6694078.65	2035624.89	11.09	20.51	83.8	11.09	20.05	76.7
WR2	6694161.12	2035277.66	10.00	18.51	79.2	10.00	18.47	74.6
WR3	6693559.29	2035183.94	10.00	18.51	75.1	10.00	18.47	72.8
WR4	6693390.01	2034732.55	10.00	18.50	69.4	10.00	18.46	68.3
WR5	6693092.71	2034335.42	9.99	18.50	51.7	9.99	18.46	51.7
WR6	6692960.33	2033109.29	8.30	18.50	48.0	8.30	18.46	44.3
144	6688148.38	2036565.45	16.17	22.55	110.0	16.17	22.56	110.0
WR7	6692242.27	2046071.57	18.69	23.00	78.0	18.69	23.00	78.0
1158	6695468.54	2031965.70	16.17	20.88	80.5	16.17	20.53	80.5
1113	6695469.03	2030178.13	8.42	17.68	79.5	8.42	17.68	79.5
Node303	6687861.88	2008817.46	9.62	14.94	84.6	9.62	14.76	84.7
Node308	6688551.87	2007805.19	9.71	14.91	198.8	9.71	14.71	198.8
MAP_inflow	6687922.38	2007288.19	5.84	14.93	351.6	5.84	14.73	352.0
ProposedDeveopment	6689911.41	2006111.58	#N/A	#N/A	#N/A	5.98	13.88	17.9
Node314	6687942.43	2004657.55	#N/A	#N/A	#N/A	4.98	14.05	416.9
Node316	6687959.38	2005468.24	#N/A	#N/A	#N/A	5.35	14.05	429.2
Node317	6685206.25	2005930.39	#N/A	#N/A	#N/A	10.02	13.84	3.0

Appendix D-2: Commercial Sites: Low Impact Development (LID) Credits and Treatment BMP Sizing Calculations

Name of Drainage Shed: Fill in Blue Highlighted boxes
 Location of project: **Sacramento**

Step 1 - Open Space and Pervious Area Credits

Is your project within the drainage area of a common drainage plan that includes open space? If not, skip to 1 b.

1 a. Common Drainage Plan Area acres A_{CDP}

Common Drainage Plan Open Space (Off-project) acres A_{OS} **see area example below**

a. Natural storage reservoirs and drainage corridors acres
 b. Buffer zones for natural water bodies acres
 c. Natural areas including existing trees, other vegetation, and soil acres
 d. Common landscape area/park acres
 e. Regional Flood Control/Drainage basins acres

1 b. Project Drainage Shed Area (Total) acres A

Project-Specific Open Space (In-project, communal)** acres A_{PSOS} **see area example below**

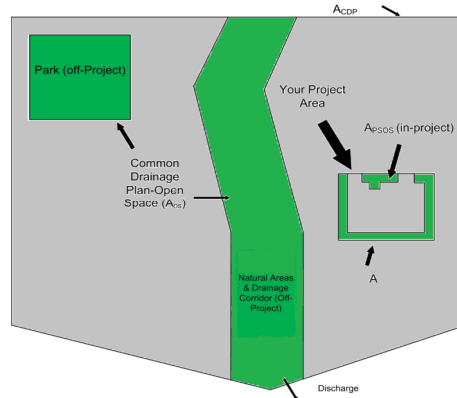
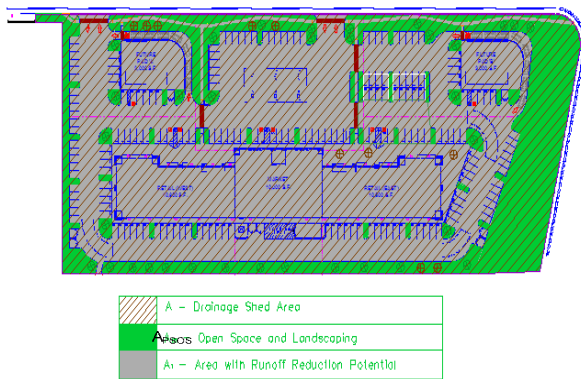
a. Natural storage reservoirs and drainage corridors acres
 b. Buffer zones for natural water bodies acres
 c. Natural areas including existing trees, other vegetation, and soil acres
 d. Landscape area/park acres
 e. Flood Control/Drainage basins acres

** Doesn't include impervious areas within individual lots and surrounding individual units. That is accounted for below using Form D-1a in Step 2.

Area with Runoff Reduction Potential $A - A_{PSOS} =$ acres A_T

Assumed Initial Impervious Fraction $A_T / A =$ I

Open Space & Pervious Area LID Credit (Step 1)
 $(A_{OS}/A_{CDP} + A_{PSOS}/A) \times 100 =$ pts



Step 2 - Runoff Reduction Credits

Runoff Reduction Treatments	Impervious Area Managed	Efficiency Factor	Effective Area Managed (A_c)
Porous Pavement:			
Option 1: Porous Pavement (see Fact Sheet, excludes porous pavement used in Option 2)	<input type="text" value="0"/> acres	x <input type="text" value=""/>	= <input type="text" value="0.000"/> acres
Option 2: Disconnected Pavement (see Fact Sheet, excludes porous pavement used in Option 1)	use Form D-2a for credits	→	= <input type="text" value="0.00"/> acres
Landscaping used to Disconnect Pavement (see Fact Sheet)	<input type="text" value="0.0000"/> acres	=	= <input type="text" value="0.00"/> acres
Disconnected Roof Drains (see Fact Sheet and/or Table D-2b for summary of requirements)	<input type="text" value="0"/> acres	=	= <input type="text" value="0.00"/> acres
Ecoroof (see Fact Sheet)	<input type="text" value="0"/> acres	=	= <input type="text" value="0.00"/> acres
Interceptor Trees (see Fact Sheet)	use Form D-2b for credits	→	= <input type="text" value="0.00"/> acres
Total Effective Area Managed by Runoff Reduction Measures		A_c	= <input type="text" value="0.00"/> acres
Runoff Reduction Credit (Step 2)		$(A_c / A_T) \times 100 =$	<input type="text" value="0"/> pts

Table D-2a

Porous Pavement Type	Efficiency Multiplier
Cobblestone Block Pavement	0.40
Pervious Concrete/Asphalt	0.60
Modular Block Pavement &	0.75
Reinforced Grass Pavement	1.00

Table D-2b

Maximum roof size	Minimum travel distance
≤ 3,500 sq ft	21 ft
≤ 5,000 sq ft	24 ft
≤ 7,500 sq ft	28 ft
≤ 10,000 sq ft	32 ft

Form D-2a: Disconnected Pavement Worksheet

See Fact Sheet for more information regarding Disconnected Pavement credit guidelines

Effective Area Managed (A_c)

Pavement Draining to Porous Pavement

2. Enter area draining onto Porous Pavement acres Box K1

3. Enter area of Receiving Porous Pavement (excludes area entered in Step 2 under Porous Pavement) acres Box K2

4. Ratio of Areas (Box K1 / Box K2) Box K3

5. Select multiplier using ratio from Box K3 and enter into Box K4

Ratio (Box D)	Multiplier
Ratio is ≤ 0.5	1.00
Ratio is > 0.5 and < 1.0	0.83
Ratio is > 1.0 and < 1.5	0.71
Ratio is > 1.5 and < 2.0	0.55

Box K4

6. Enter Efficiency of Porous Pavement (see table below) Box K5

Porous Pavement Type	Efficiency Multiplier
Cobblestone Block Pavement	0.40
Pervious Concrete Asphalt Pavement	0.60
Modular Block Pavement	0.75
Porous Gravel Pavement	
Reinforced Grass Pavement	1.00

7. Multiply Box K2 by Box K5 and enter into Box K6 acres Box K6

8. Multiply Boxes K1, K4, and K5 and enter the result in Box K7 acres Box K7

9. Add Box K6 to Box K7 and multiply by 60%, and enter the Result in Box K8 acres

This is the amount of area credit to enter into the "Disconnected Pavement" Box of Form D-2

Form D-2b: Interceptor Tree Worksheet

See Fact Sheet for more information regarding Interceptor Tree credit guidelines

New Evergreen Trees

1. Enter number of new evergreen trees that qualify as Interceptor Trees in Box L1. trees Box L1

2. Multiply Box L1 by 200 and enter result in Box L2 sq. ft. Box L2

New Deciduous Trees

3. Enter number of new deciduous trees that qualify as Interceptor Trees in Box L3. trees Box L3

4. Multiply Box L3 by 100 and enter result in Box L4 sq. ft. Box L4

Existing Tree Canopy

5. Enter square footage of existing tree canopy that qualifies as Existing Tree canopy in Box L5. sq. ft. Box L5

6. Multiply Box L5 by 0.5 and enter the result in Box L6 sq. ft. Box L6

Total Interceptor Tree EAM Credits

Add Boxes L2, L4, and L6 and enter into Box L7 sq. ft. Box L7

Divide Box L7 by 43,560 and multiply by 20% to get effective area managed and enter result in Box L8 acres Box L8

This is the amount of area credit to enter into the "Interceptor Trees" Box of Form D-2

Step 3 - Runoff Management Credits

Capture and Use Credits

Impervious Area Managed by Rain barrels, Cisterns, and automatically-emptied systems

(see Fact Sheet) enter gallons, for simple rain barrels acres

Automated-Control Capture and Use System

(see Fact Sheet, then enter impervious area managed by the system) acres

Bioretention/Infiltration Credits

Impervious Area Managed by Bioretention BMPs

(see Fact Sheet) Bioretention Area sq ft
 Subdrain Elevation inches
 Ponding Depth, inches inches acres

Impervious Area Managed by Infiltration BMPs

(see Fact Sheet) Drawdown Time, hrs drawdown_hrs_inf
 Soil Infiltration Rate, in/hr soil_inf_rate

Sizing Option 1: Capture Volume, acre-ft capture_vol_inf acres

Sizing Option 2: Infiltration BMP surface area, sq ft soil_surface_area acres

Basin or trench? approximate BMP depth ft

Impervious Area Managed by Amended Soil or Mulch Beds

(see Fact Sheet) Mulched Infiltration Area, sq ft mulch_area acres

Total Effective Area Managed by Capture-and-Use/Bioretention/Infiltration BMPs

A_{LIDc}

Runoff Management Credit (Step 3)

A_{LIDc}/A_T*200 = pts

Total LID Credits (Step 1+2+3)

LID compliant, check for treatment sizing in Step 4

Does project require hydromodification management? If yes, proceed to using SachM.

Adjusted Area for Flow-Based, Non-LID Treatment

A_T - A_C - A_{LIDc} = A_{AT}

Adjusted Impervious Fraction of A for Volume-Based, Non-LID Treatment

A_{AT} / A = I_A

Further treatment is required, see choose flow-based or volume-based sizing in Step 4

Step 4a Treatment - Flow-Based (Rational Method)

Calculate treatment flow (cfs):

Flow = Runoff Coefficient x Rainfall Intensity x Area

Look up value for i in Table D-2c (Rainfall Intensity) i

Obtain A_{AT} from Step 3 A_{AT}

Use C = 0.95 C

Flow = 0.95 * i * A_{AT} cfs

Table D-2c

Rainfall Intensity	
Roseville	i = 0.20 in/hr
Sacramento	i = 0.18 in/hr
Folsom	i = 0.20 in/hr

Step 4b Treatment - Volume-Based (ASCE-WEF)

Calculate water quality volume (Acre-Feet):

WQV = Area x Maximized Detention Volume (P₀)

Obtain A from Step 1 A hrs Specified Draw Down time

Obtain P₀: Maximized Detention Volume from figures E-1 to E-4 in Appendix E of this manual using I_a from Step 2. P₀

Calculate treatment volume (acre-ft):
Treatment volume = A x (P₀ / 12) Acre-Feet

APPENDIX J



Environmental Noise Assessment

Airport S. Industrial Park

City of Sacramento, California

April 22, 2024

Project #220109

Prepared for:



Raney Planning & Management

1501 Sports Drive, Suite A

Sacramento, CA 95834

Prepared by:

Saxelby Acoustics LLC

A blue ink signature of Luke Saxelby.

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Table of Contents

INTRODUCTION 1

ENVIRONMENTAL SETTING 1

BACKGROUND INFORMATION ON NOISE 1

EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS 6

EXISTING NOISE RECEPTORS 6

EXISTING GENERAL AMBIENT NOISE LEVELS 6

EVALUATION OF TRANSPORTATION NOISE SOURCES ON THE PROJECT SITE 8

SACRAMENTO INTERNATIONAL AIRPORT NOISE 8

FUTURE TRAFFIC NOISE ENVIRONMENT AT OFF-SITE RECEPTORS 10

EVALUATION OF PROJECT OPERATIONAL NOISE AT RESIDENTIAL RECEPTORS 13

LOADING DOCK AND TRUCK CIRCULATION NOISE GENERATION 13

ON-SITE CIRCULATION 13

CONSTRUCTION NOISE ENVIRONMENT 16

CONSTRUCTION VIBRATION ENVIRONMENT 16

REGULATORY CONTEXT 17

FEDERAL 17

STATE 17

LOCAL 17

CRITERIA FOR ACCEPTABLE VIBRATION 22

IMPACTS AND MITIGATION MEASURES 24

THRESHOLDS OF SIGNIFICANCE 24

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES 25

REFERENCES 30

Appendices

- Appendix A: Acoustical Terminology
- Appendix B: Field Noise Measurement Data
- Appendix C: Traffic Noise Calculations

List of Figures

Figure 1: Site Plan..... 2
 Figure 2: Noise Measurement Sites and Receptor Locations 3
 Figure 3: Airport Noise Contours (CNEL)..... 9
 Figure 4: Daytime Project Noise Level Contours (L₅₀) 14
 Figure 5: Nighttime Project Noise Level Contours (L₅₀) 15
 Figure 6: Daytime Project Noise Levels with 8-Foot wall (L₅₀) 27
 Figure 7: nighttime Project Noise Levels with 8-Foot wall (L₅₀)..... 28

List of Tables

Table 1: Typical Noise Levels..... 4
 Table 2: Summary of Existing Background Noise Measurement Data 7
 Table 3: Predicted Baseline Traffic Noise Level and Project-Related Traffic Noise Level Increases..... 11
 Table 4: Predicted Cumulative Traffic Noise Level and Project-Related Traffic Noise Level Increases..... 12
 Table 5: Construction Equipment Noise 16
 Table 6: Vibration Levels for Various Construction Equipment..... 16
 Table 7: Sacramento County General Plan Non-Transportation Noise Standards 18
 Table 8: Land Use Compatibility for Sacramento International Airport 19
 Table 9: Sacramento County Noise Ordinance 20
 Table 10: Exterior Noise Compatibility Standards of Various Land Uses..... 21
 Table 11: Stationary Noise Source Noise Standards..... 22
 Table 12: Effects of Vibration on People and Buildings..... 23
 Table 13: Significance of Changes in Noise Exposure 25

INTRODUCTION

The Airport S. Industrial Park project proposes the annexation of an undeveloped site by the City of Sacramento, including the development of industrial uses and retail/highway commercial uses within an approximately 354-acre portion of the project site. The project is located south of Interstate 5 (I-5) in the City of Sacramento, California.

Surrounding land uses include single family residential uses to the south and east of the project site. While the project is located within the boundaries of the City of Sacramento, some adjacent sensitive receptors are located within of the County boundaries.

Figure 1 shows the project site plan. **Figure 2** shows an aerial photo of the project site.

ENVIRONMENTAL SETTING

BACKGROUND INFORMATION ON NOISE

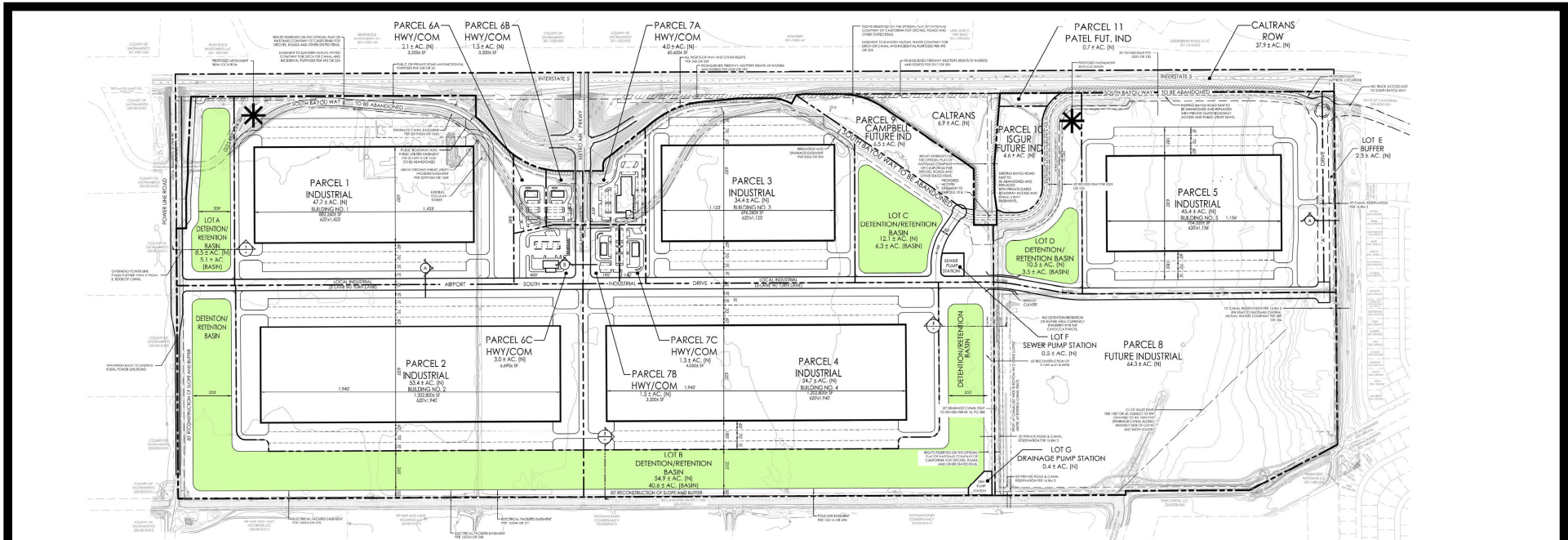
Fundamentals of Acoustics

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

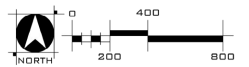
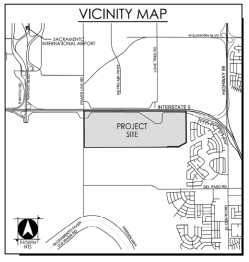
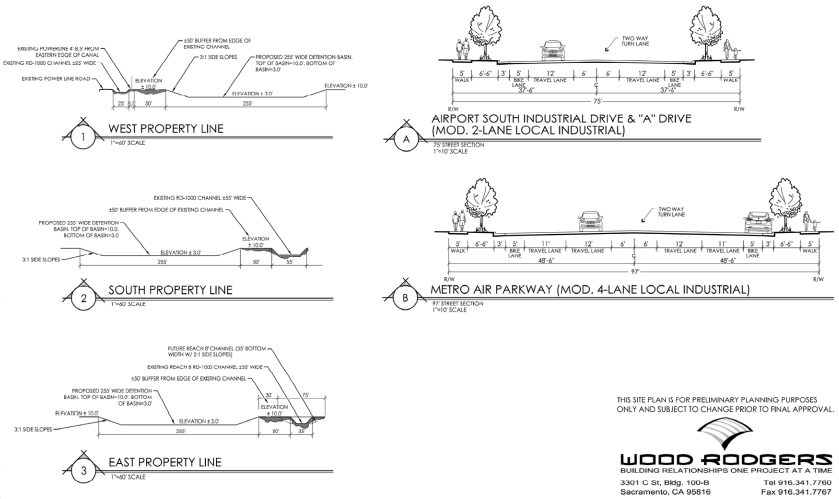
Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.



LAND USE SUMMARY									
Site Plan Lot Number	Land Owner	Proposed Land Use	GP Designation	Zone	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est	Use for Est. Bldg SF
Proposed Applicant Sponsored Lands									
1	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	33.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	34.4	696,260	0.46	Calculated	773,900
4	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	34.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	35.8	793,320	0.36	Calculated	793,800
Subtotal Warehouse					235.6	4,688,460	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	2.1	3,200	0.65	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	EC Low Rise (FAR: 0.15-1.0)	HC	3.0	6,000	0.65	Calculated	8,100
6D	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	4.0	160,000	0.35	Calculated	71,000
6E	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.5	3,200	0.65	Calculated	3,900
6F	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6G	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6H	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6I	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6J	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6K	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6L	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6M	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6N	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6O	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6P	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6Q	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6R	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6S	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6T	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6U	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6V	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6W	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6X	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6Y	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
6Z	NorthPoint / AKT Investments	Restaurant	EC Low Rise (FAR: 0.15-1.0)	HC	1.3	3,200	0.65	Calculated	3,900
Subtotal Retail Commercial					13.4	85,600	0.14	Average	96,200
A	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	8.5	.....	.....	.....	.....
B	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	3.9	.....	.....	.....	.....
C	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	12.1	.....	.....	.....	.....
D	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	10.5	.....	.....	.....	.....
E	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	2.3	.....	.....	.....	.....
F	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	0.5	.....	.....	.....	.....
G	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	0.6	.....	.....	.....	.....
Subtotal Public Facilities					38.2	.....	.....	.....	.....
Subtotal Internal Roadways					15.3	.....	.....	.....	.....
Total for Applicant Sponsored Lands					353.5	4,769,380	0.31	Average	5,302,700
Future Industrial Lands									
8	Caltrans	Future Industrial	Industrial	M-1	64.3	980,328	0.35	Estimated	1,088,200
9	Campbell	Future Industrial	Industrial	M-1	6.5	99,099	0.35	Estimated	110,000
10	Igier	Future Industrial	Industrial	M-1	6.6	70,132	0.35	Estimated	77,900
11	Patel	Future Industrial	Industrial	M-1	0.7	16,072	0.35	Estimated	11,000
Subtotal					6.9	105,137	0.35	Estimated	116,800
Subtotal					89.0	1,285,438	0.35	Check Average	1,490,000
Subtotal Developable Lands (Warehouse/Distribution)					116.6	5,955,858	0.43	Average	6,695,300
Subtotal Developable Lands (Highway Commercial)					13.4	85,600	0.14	Average	96,200
Subtotal Developable Lands (Public Facilities and Internal Roadways)					186.5	.....	.....	.....	.....
Total Developable Land					496.5	6,034,758	0.32	Average	6,791,500
Caltrans 15 Fee Title R/W					37.3	.....	.....	.....	.....
Grand Total					474.4	.....	.....	.....	.....



Notes:
 1. Net acreage used in order to estimate Building Square Footage information and/or to calculate the FAR.
 2. Internal Roadways: Industrial 400' Drive, Metro Air Parkway and Power Line Road.
 3. Caltrans 15 Fee Title lands included in the land proposed for annexation to the City of Sacramento.
 4. 36 ft for building coverage 31 based on the site plan for Applicant lands and 21 calculated based on an average FAR for Future Industrial Lands.
 5. Application of a 13% factor applied to the industrial lands and 23% added to the retail / commercial lands to arrive at the planning level estimated totals.

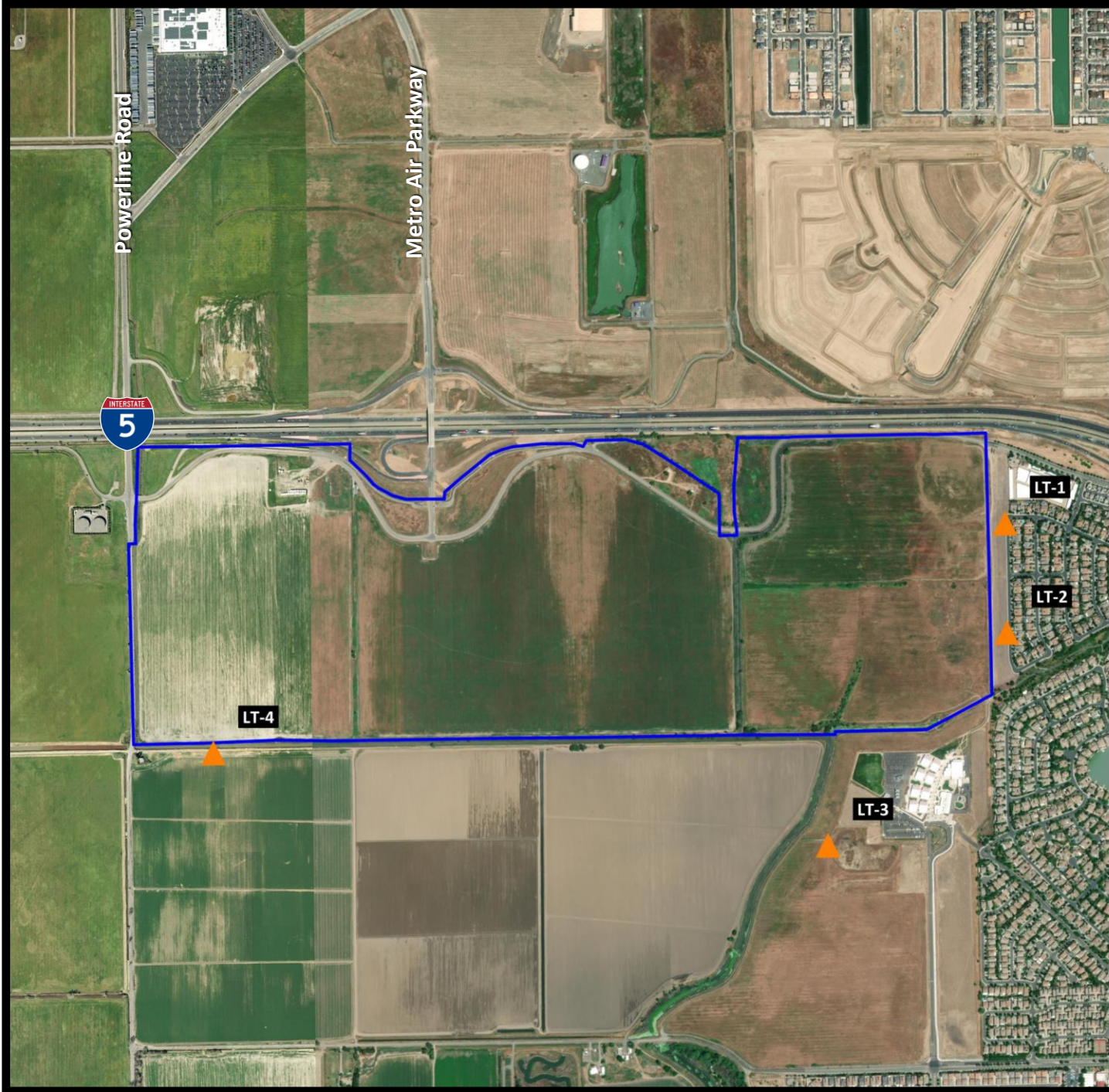
THIS SITE PLAN IS FOR PRELIMINARY PLANNING PURPOSES ONLY AND SUBJECT TO CHANGE PRIOR TO FINAL APPROVAL.
WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 3301 C ST. EMP. 10049 TEL 916.341.7100
 SACRAMENTO, CA 95816 FAX 916.341.7767

Airport S. Industrial Park

City of Sacramento, California

Figure 1
 Project Site Plan





Airport S. Industrial Park

City of Sacramento, California

Figure 2

Noise Measurement Sites

Legend

- Project Site
- ▲ Noise Measurement Site - Long Term



Projection: UTM Zone 10 / WGS84 / meters
Rev. Date: 05/09/2023



The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn} , and shows very good correlation with community response to noise.

The day/night average level (DNL or L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 1 lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

TABLE 1: TYPICAL NOISE LEVELS

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	--110--	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	--100--	
Gas Lawn Mower at 1 m (3 ft.)	--90--	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	--80--	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	--70--	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	--60--	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	--50--	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	--40--	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	--30--	Library
Quiet Rural Nighttime	--20--	Bedroom at Night, Concert Hall (Background)
	--10--	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	--0--	Lowest Threshold of Human Hearing

Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.

Effects of Noise on People

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS

EXISTING NOISE RECEPTORS

The existing noise environment in the project area is defined primarily by traffic on Interstate 5 and the Sacramento International Airport.

Some land uses are considered more sensitive to noise than others. Land uses often associated with sensitive receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Sensitive noise receptors may also include threatened or endangered noise sensitive biological species, although many jurisdictions have not adopted noise standards for wildlife areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise.

Sensitivity is a function of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities involved. In the vicinity of the project site, sensitive land uses include existing single-family residential uses located east and south of the project site.

EXISTING GENERAL AMBIENT NOISE LEVELS

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at four locations around the project site. Noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted L_{max} , represents the highest noise level measured. The average value, denoted L_{eq} , represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L_{50} , represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) model 820 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a CAL 200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

Location	Date	L _{dn}	Daytime L _{eq}	Daytime L ₅₀	Daytime L _{max}	Nighttime L _{eq}	Nighttime L ₅₀	Nighttime L _{max}
LT-1: 920 feet from CL of I-5	3/29/2022	62	58	51	75	56	53	68
	3/30/2022	67	62	56	75	61	53	77
	3/31/2022	60	56	53	70	54	52	68
	Average	64	59	54	74	58	53	73
LT-2: 1870 feet from CL of I-5	3/29/2022	59	55	42	75	52	47	65
	3/30/2022	57	55	45	75	50	41	66
	3/31/2022	58	53	49	69	52	48	67
	Average	58	54	46	74	51	46	66
LT-3: 850 feet from Paso Verde School	3/29/2022	60	57	42	77	53	46	67
	3/30/2022	60	59	44	79	53	43	67
	3/31/2022	73	74	46	74	53	46	66
	Average	69	69	44	77	53	45	67
LT-4: 740 feet from Powerline Road	3/29/2022	64	62	55	79	56	49	71
	3/30/2022	62	60	53	80	55	47	68
	3/31/2022	63	58	53	75	57	50	67
	Average	63	60	54	78	56	49	69

Notes:

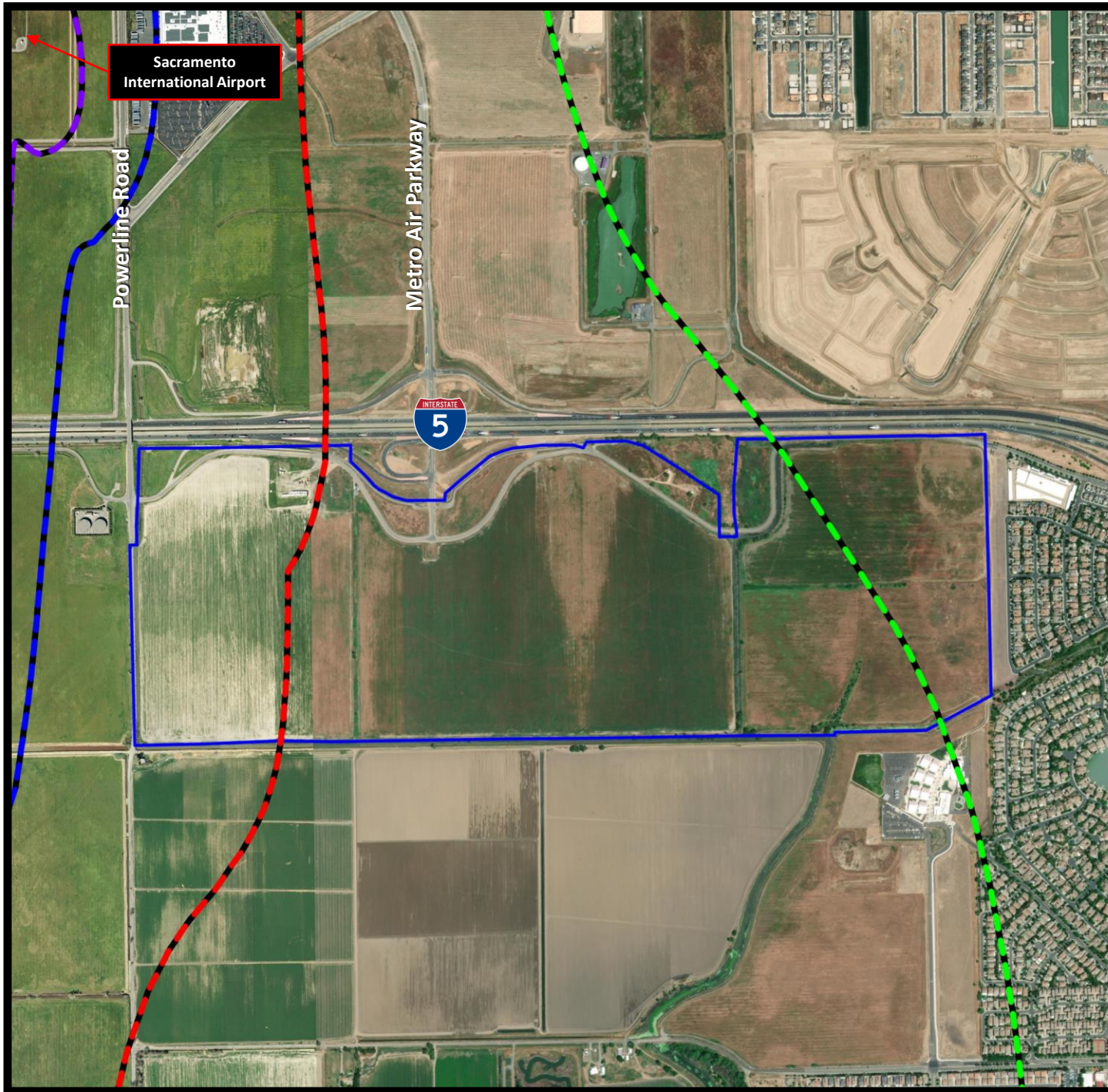
- All values shown in dBA
- Daytime hours: 7:00 a.m. to 10:00 p.m.
- Nighttime Hours: 10:00 p.m. to 7:00 a.m.
- Source: Saxelby Acoustics 2022

EVALUATION OF TRANSPORTATION NOISE SOURCES ON THE PROJECT SITE

Sacramento International Airport Noise

The Sacramento International Airport is located approximately 1.6 miles north of the project site and aircraft overflights were observed during visits to the project site. The site is generally located within the 60-65 dBA CNEL airport noise contours. **Figure 3** shows the noise contours for the airport as published in the Sacramento County General Plan.





Airport S. Industrial Park

City of Sacramento, California

Figure 3

Airport Noise Contours (CNEL)

Legend

- Project Site
- Noise Contour - 60 dBA
- Noise Contour - 65 dBA
- Noise Contour - 70 dBA
- Noise Contour - 75 dBA



Projection: UTM Zone 10 / WGS84 / meters
Rev. Date: 05/09/2023



FUTURE TRAFFIC NOISE ENVIRONMENT AT OFF-SITE RECEPTORS

Off-Site Traffic Noise Impact Assessment Methodology

To assess noise impacts due to project-related traffic increases on the local roadway network, traffic noise levels are predicted at sensitive receptors for project and no-project conditions.

Baseline, Baseline Plus Project, Cumulative, and Cumulative Plus Project traffic noise levels are calculated using the Federal Highway Administration Highway Traffic Noise Prediction Model (FHWA RD-77-108). The model is based upon the Calveno reference noise factors for automobiles, medium trucks and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site.

The FHWA model was developed to predict hourly L_{eq} values for free-flowing traffic conditions. To predict traffic noise levels in terms of L_{dn} , it is necessary to adjust the input volume to account for the day/night distribution of traffic.

Project trip generation volumes were provided by the project traffic engineer (DKS Associates 2023), truck usage and vehicle speeds on the local area roadways were estimated from field observations. The predicted increases in traffic noise levels on the local roadway network for Baseline, Baseline Plus Project, Cumulative, and Cumulative Plus Project conditions are provided in terms of L_{dn} .

Traffic noise levels are predicted at the sensitive receptors located at the closest typical setback distance along each project-area roadway segment. In some locations sensitive receptors may not receive full shielding from noise barriers or may be located at distances which vary from the assumed calculation distance.

Tables 3 and 4 summarize the modeled traffic noise levels at the nearest sensitive receptors along each roadway segment in the Project area. **Appendix C** provides the complete inputs and results of the FHWA traffic modeling.

TABLE 3: PREDICTED BASELINE TRAFFIC NOISE LEVEL AND PROJECT-RELATED TRAFFIC NOISE LEVEL INCREASES

Roadway	Segment	Predicted Exterior Noise Level (dBA L _{dn}) at Closest Sensitive Receptors		
		Baseline No Project	Baseline + Project	Change
Metro Air Parkway	I-5 to Pacific Gateway Drive	42.4	45.1	2.7
Metro Air Parkway	Pacific Gateway Drive to Meister Way	43.2	45.5	2.3
Metro Air Parkway	Meister Way to Elkhorn Boulevard	43.0	45.3	2.3
West Elkhorn Boulevard	Lone Tree Road to Baidee Drive	58.7	59.9	1.2
Powerline Road	Garden Highway to Del Paso Road	33.8	35.3	1.5
Powerline Road	Bayou Road to Del Paso Road	53.2	57.6	4.4
Powerline Road	Bayou Road to Pacific Gateway Drive	56.7	57.0	0.2
Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	27.7	27.9	0.1
Del Paso Road	Powerline Road to Hovnanian Drive	49.7	51.6	1.9
El Centro Road	Del Paso Road to Hawkview Drive	47.2	48.3	1.1
El Centro Road	Hawkview Drive to Bayou way	56.5	58.5	2.0
Garden Highway	Power Line Road to Radio Road	47.1	48.5	1.4
Garden Highway	Radio Road to San Juan Road	52.3	53.4	1.1
Garden Highway	San Juan Road to City Limit	50.7	50.9	0.2
Metro Air Parkway	I-5 to Airport South Industrial Drive	-	41.4	-
Airport South Industrial Drive	Powerline Road to Metro Air Parkway	-	44.6	-
Airport South Industrial Drive	METRO Air Parkway to "A" Drive	-	44.1	-
"A" Drive	Airport South Industrial Drive to Bayou Way	-	54.1	-
Bayou Way	A Drive to El Centro Road	58.8	61.0	2.3

TABLE 4: PREDICTED CUMULATIVE TRAFFIC NOISE LEVEL AND PROJECT-RELATED TRAFFIC NOISE LEVEL INCREASES

Roadway	Segment	Predicted Exterior Noise Level (dBA L _{dn}) at Closest Sensitive Receptors		
		Cumulative No Project	Cumulative + Project	Change
Metro Air Parkway	I-5 to Pacific Gateway Drive	46.2	47.3	1.1
Metro Air Parkway	Pacific Gateway Drive to Meister Way	46.1	47.2	1.0
Metro Air Parkway	Meister Way to Elkhorn Boulevard	45.4	45.8	0.5
West Elkhorn Boulevard	Lone Tree Road to Baidee Drive	62.9	63.0	0.1
Powerline Road	Garden Highway to Del Paso Road	39.9	40.6	0.7
Powerline Road	Bayou Road to Del Paso Road	57.1	60.1	3.0
Powerline Road	Bayou Road to Pacific Gateway Drive	57.5	58.5	1.0
Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	28.7	29.8	1.0
Del Paso Road	Powerline Road to Hovnanian Drive	50.0	51.4	1.3
El Centro Road	Del Paso Road to Hawkview Drive	52.7	52.3	-0.4
El Centro Road	Hawkview Drive to Bayou way	62.7	61.9	-0.9
Garden Highway	Power Line Road to Radio Road	53.3	54.0	0.6
Garden Highway	Radio Road to San Juan Road	58.8	59.2	0.4
Garden Highway	San Juan Road to City Limit	55.7	56.0	0.3
Metro Air Parkway	I-5 to Airport South Industrial Drive	-	43.0	-
Airport South Industrial Drive	Powerline Road to Metro Air Parkway	-	46.4	-
Airport South Industrial Drive	METRO Air Parkway to "A" Drive	-	45.9	-
"A" Drive	Airport South Industrial Drive to Bayou Way	-	56.4	-
Bayou Way	A Drive to El Centro Road	62.9	63.8	1.0

Based upon the data in **Tables 3 and 4**, the proposed project is predicted to result in a maximum traffic noise level increase of 4.4 dBA.

EVALUATION OF PROJECT OPERATIONAL NOISE AT RESIDENTIAL RECEPTORS

Loading Dock and Truck Circulation Noise Generation

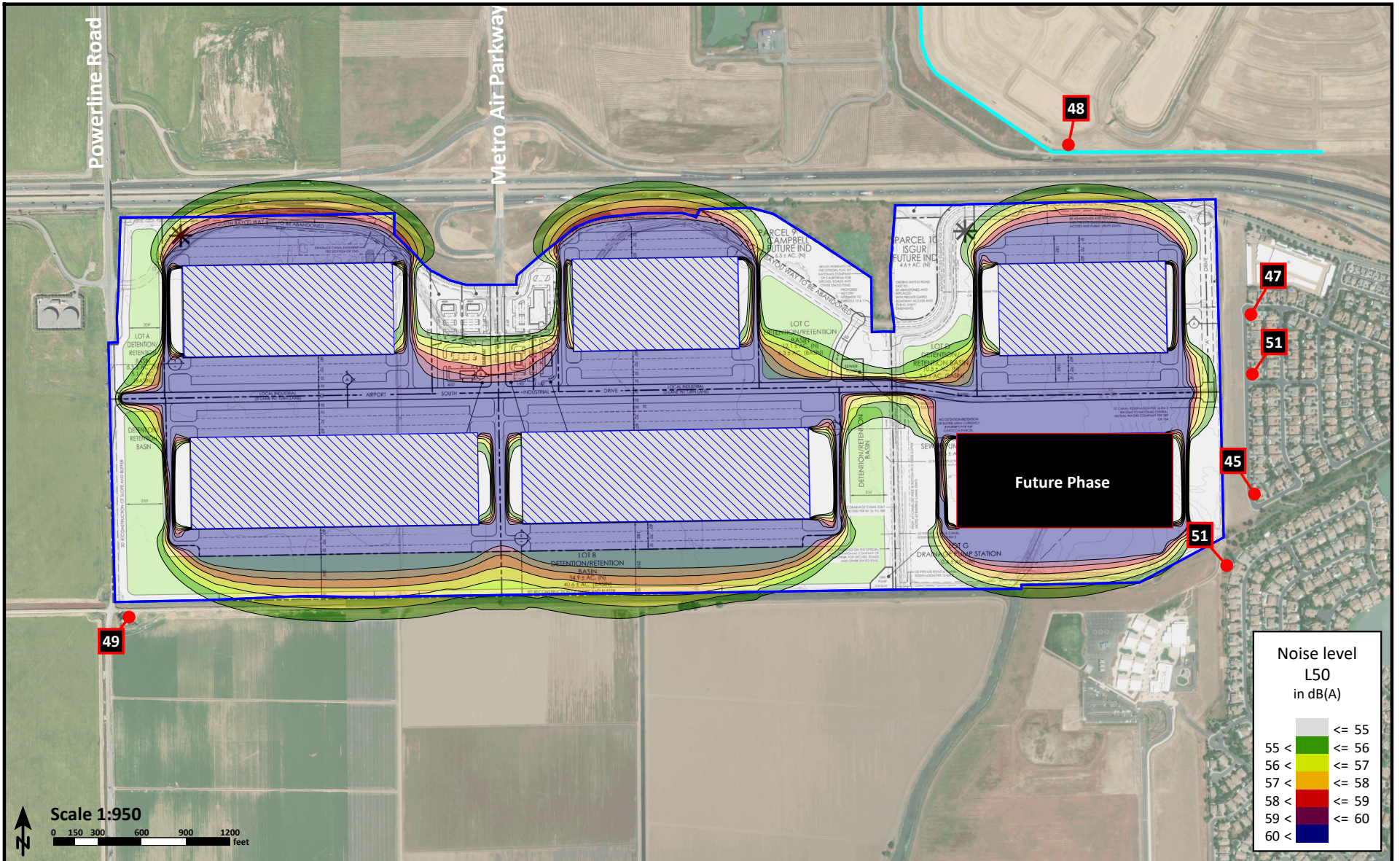
To determine typical noise levels associated with the proposed loading docks, noise level measurement data from a United Natural Foods, Inc. (UNFI) warehouse was used. The noise level measurements were conducted at a distance of 200 feet from the center of the loading dock and circulation area. Activities during the peak hour of loading dock activities included truck arrival/departures, truck idling, truck backing, air brake release, and operation of truck-mounted refrigeration units.

The results of the loading dock noise measurements indicate that a busy hour generated an average noise level of 61 dBA L_{50} at a distance of 200 feet from the center of the loading dock truck maneuvering lanes. This analysis assumes that the proposed loading docks would operate at this level of activity in a busy hour during either daytime (7:00 a.m. to 10:00 p.m.) or nighttime (10:00 p.m. to 7:00 a.m.). Noise source data was scaled up, as appropriate, for the larger proposed facility.

On-Site Circulation

The commercial component of the project is projected to generate 17,421 daily trips with 1,647 trips in the morning peak hour (DKS Associates 2023). Numbers of heavy truck trips on the project site were obtained from the project traffic report. Parking lot movements are predicted to generate a sound exposure level (SEL) of 71 dBA SEL at 50 feet for cars and 85 dBA SEL at 50 feet for trucks. Saxelby Acoustics data.





Saxelby Acoustics used the SoundPLAN noise model to calculate noise levels at the nearest sensitive receptors. Input data included the loading docks and parking lot noise generation, as discussed above. The project noise level contours for the daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) median (L_{50}) are shown in **Figure 4 and 5**, respectively.



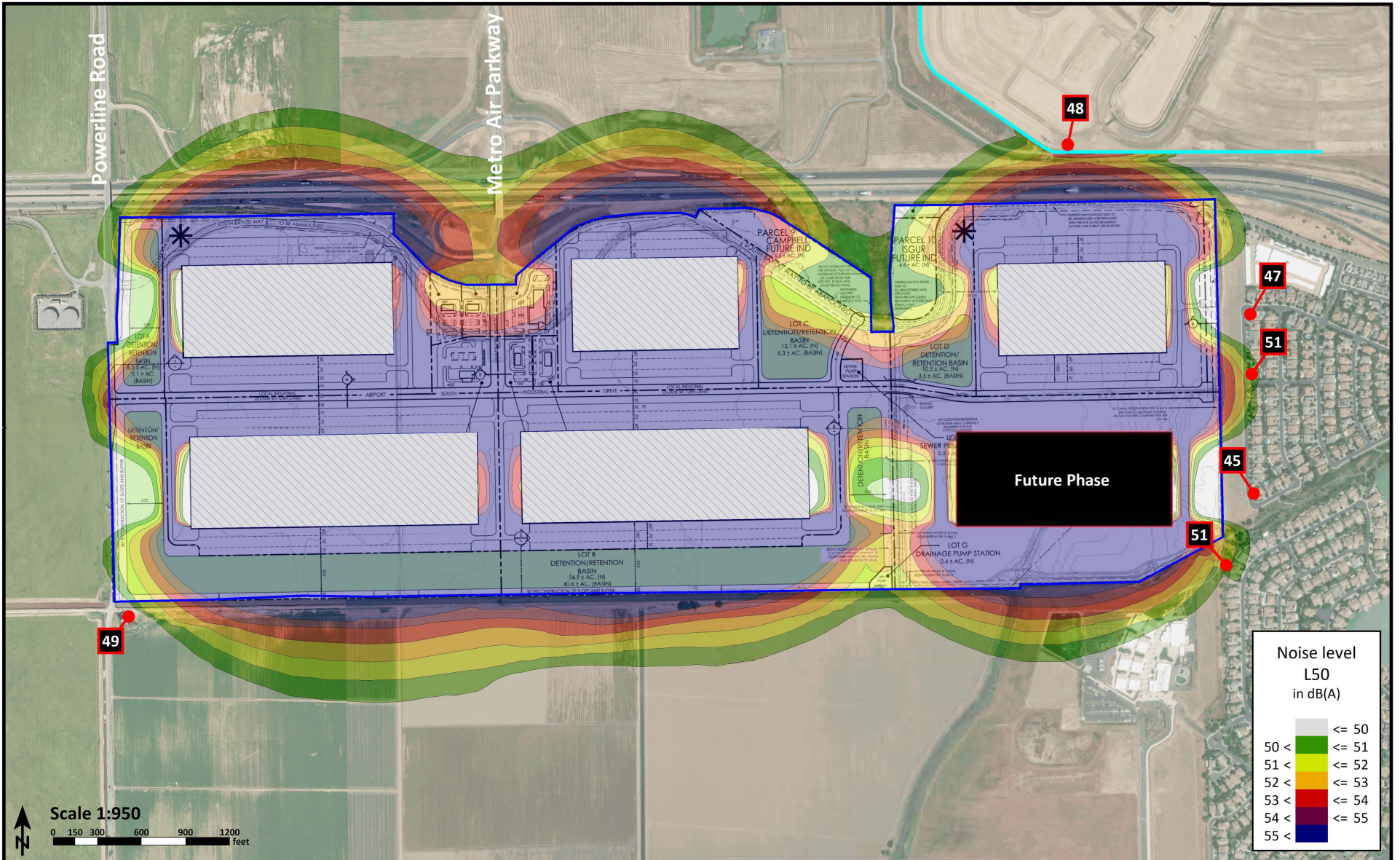
Airport S. Industrial Park

City of Sacramento, California

Figure 4
Project-Generated Noise Levels (dB(A) L50)

- Legend**
-  Project Building
 -  Project Site
 -  Noise Level
 -  Sound Wall





Airport S. Industrial Park

City of Sacramento, California

Figure 5
Nighttime Project-Generated Noise Levels (dB(A) L50)



CONSTRUCTION NOISE ENVIRONMENT

During the construction of the proposed project noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown in **Table 5**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

TABLE 5: CONSTRUCTION EQUIPMENT NOISE

Type of Equipment	Maximum Level, dBA at 50 feet
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

Source: Roadway Construction Noise Model User's Guide. Federal Highway Administration. FHWA-HEP-05-054. January 2006.

CONSTRUCTION VIBRATION ENVIRONMENT

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and parking lot construction occur. **Table 6** shows the typical vibration levels produced by construction equipment.

TABLE 6: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

REGULATORY CONTEXT

FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project.

STATE

California Environmental Quality Act

The California Environmental Quality Act (CEQA) Guidelines, Appendix G, indicate that a significant noise impact may occur if a project exposes persons to noise or vibration levels in excess of local general plans or noise ordinance standards, or cause a substantial permanent or temporary increase in ambient noise levels. CEQA standards are discussed more below under the Thresholds of Significance section.

LOCAL

County of Sacramento General Plan

The County of Sacramento General Plan Noise Element Table 2 (listed in **Table 7** below) establishes an acceptable exterior noise level of 55 dBA L_{50} for daytime (7:00 a.m. to 10:00 p.m.) and 50 dBA L_{50} for nighttime (10:00 p.m. to 7:00 a.m.) for non-transportation noise sources.

TABLE 7: SACRAMENTO COUNTY GENERAL PLAN NON-TRANSPORTATION NOISE STANDARDS

Receiving Land Use	Outdoor Area ²		Interior ³	
	Daytime	Nighttime	Interior Day & Night	Notes
All Residential	55 / 75	50 / 70	35 / 55	
Transient Lodging	55 / 75	-----	35 / 55	4
Hospitals & Nursing Home	55 / 75	-----	35 / 55	5, 6
Theaters & Auditoriums	-----	-----	30 / 50	6
Churches, Meeting Halls, Schools, Libraries, etc.	55 / 75	-----	35 / 60	6
Office Buildings	60 / 75	-----	45 / 65	6
Commercial Buildings	-----	-----	45 / 65	6
Playgrounds, Parks, etc.	60 / 75	-----	-----	6
Industry	60 / 80	-----	50 / 70	6

Notes:

1. The Table 2 standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the standards of Table 2, then the noise level standards shall be increased at 5 dB increments to encompass the ambient.
2. Sensitive areas are defined acoustic terminology section.
3. Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in the closed positions.
4. Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.
5. Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.
6. The outdoor activity areas of these uses (if any), are not typically utilized during nighttime hours.
7. Where median (L₅₀) noise level data is not available for a particular noise source, average (Leq) values may be substituted for the standards of this table provided the noise source in question operates for at least 30 minutes of an hour. If the source in question operates less than 30 minutes per hour, then the maximum noise level standards shown would apply.

Source: Sacramento County General Plan Noise Element, 2011. Accessed November, 2019.

The County of Sacramento General Plan utilizes the Sacramento International Airport Land Use Compatibility Plan Table 1 to define an acceptable noise environment, (reproduced below in **Table 8**). A normally acceptable noise environment for warehouses and indoor storage is defined as a noise exposure level of less than 75 dBA CNEL.

TABLE 8: LAND USE COMPATIBILITY FOR SACRAMENTO INTERNATIONAL AIRPORT

Land Use Category ¹	Exterior Noise Exposure (CNEL dB)					Criteria for Conditional Uses
	≤ 60	60-65	65-70	70-75	> 75	
<ul style="list-style-type: none"> › Multiple land use categories and compatibility criteria may apply to a project › Land uses not specifically listed shall be evaluated using criteria for similar uses 						<ul style="list-style-type: none"> › Interior CNEL limits in yellow cells apply in addition to other listed conditions (see Policy 3.2.3) › Acoustical study may be required for noise-sensitive uses proposed in areas exposed to CNEL 60 dB or greater (see Policy 3.2.3(d))
Legend (see last page of table for interpretation)	Normally Compatible			Conditional		Incompatible
Indoor Storage: wholesale sales, warehouses, mini/other indoor storage, barns, greenhouses						
Outdoor Storage: public works yards, automobile dismantling						
Mining & Extraction						

Source : Sacramento Internatioal Airport Land Use Compatibility Plan

Transportation Projects

NO-9. If projected post-project traffic noise levels at existing uses exceed the noise standards of **Table 7**, then feasible methods of reducing noise to levels consistent with the **Table 7** standards shall be analyzed as part of the noise analysis. In the case of existing residential uses, sensitive outdoor areas shall be mitigated to 60 dB, when possible, through the application of feasible methods to reduce noise. If 60 dB cannot be achieved after the application of all feasible methods of reducing noise, then noise levels up to 65 dB are allowed.

If pre-project traffic noise levels for existing uses already exceed the noise standards of Table 7 and the increase is significant as defined below, feasible methods of reducing noise to levels consistent with the Table 7 standards should be applied. In no case shall the long-term noise exposure for non-industrial uses be greater than 75 dB; long-term noise exposure above this level has the potential to result in hearing loss.

A significant increase is defined as follows:

<u>Pre-Project Noise Enviroment (L_{dn})</u>	<u>Significant Increase</u>
Less than 60 dB	5+ dB
60 – 65 dB	3+ dB
Greater than 65 dB	1.5+ dB

County of Sacramento Noise Ordinance

The County of Sacramento Noise Ordinance provides an exterior noise level standard of 55 dBA L₅₀ for daytime (7:00 a.m. to 10:00 p.m.) and an exterior noise level standard of 50 dBA L₅₀ for nighttime (10:00 p.m. to 7:00 a.m.) for residential areas. These levels are shown in **Table 9**.

If the noise source includes speech the levels in **Table 9** are to be reduced by 5 dBA. Additionally, if the ambient noise level exceeds the permitted noise level in any of the noise level categories specified in the subdivision, the allowable noise limit shall be increased by 5 dBA increments in each category to encompass the ambient noise level.

TABLE 9: SACRAMENTO COUNTY NOISE ORDINANCE

Cumulative Duration of the Intrusive Noise	Exterior Noise Level, dB	
	Daytime	Nighttime
30 minutes per hour	55	50
15 minutes per hour	60	55
5 minutes per hour	65	60
1 minute per hour	70	65
Level not to exceed for any time per hour	75	70

Source: County of Sacramento Noise Ordinance.

City of Sacramento General Plan – Noise

ERC-10.1 Exterior Noise Standards. The City shall require noise mitigation for all development where the projected exterior noise levels exceed those shown in Table ERC-1 (**Table 10**), to the extent feasible.

TABLE 10: EXTERIOR NOISE COMPATIBILITY STANDARDS OF VARIOUS LAND USES

LAND USE TYPE	HIGHEST LEVEL OF NOISE EXPOSURE THAT IS REGARDED AS "NORMALLY ACCEPTABLE" - (LDN ^b OR CNEL ^c)
Residential—Low-Density Single-Family, Duplex, Mobile Homes	60 dBA ^{d,e}
Residential—Multi-family ^f	65 dBA
Urban Residential Infill ^h and Mixed-Use Projects ^{i,j}	70 dBA
Transient Lodging—Motels, Hotels	65 dBA
Schools, Libraries, Churches, Hospitals, Nursing Homes	70 dBA
Auditoriums, Concert Halls, Amphitheaters	Mitigation based on site-specific study
Sports Arena, Outdoor Spectator Sports	Mitigation based on site-specific study
Playgrounds, Neighborhood Parks	70 dBA
Golf Courses, Riding Stables, Water Recreation, Cemeteries	75 dBA
Office Buildings—Business, Commercial, and Professional	70 dBA
Industrial, Manufacturing, Unities, Agriculture	75 dBA

Source: Governor's Office of Planning and Research, State of California General Plan Guidelines 2003, October 2003.

a As defined in the California Office of Planning and Research Guidelines, "Normally Acceptable" means that the "specified land use is satisfactory, based upon the assumption that any building involved is of normal conventional construction, without any special noise insulation requirements.

b Ldn, or day-night average sound level, is an average 24-hour noise measurement that factors in day and night noise levels.

c CNEL, or Community Noise Equivalent Level, measurements are a weighted average of sound levels gathered throughout a 24-hour period.

d Applies to the primary open space area of a detached single-family home, duplex, or mobile home, which is typically the backyard or fenced side yard, as measured from the center of the primary open space area (not the property line). This standard does not apply to secondary open space areas, such as front yards, balconies, stoops, and porches.

e dBA, or A-weighted decibel scale, is a measurement of noise levels.

f The exterior noise standard for the residential area west of McClellan Airport known as McClellan Heights/Parker Homes is 65 dBA.

g Applies to the primary open space areas of townhomes and multi-family apartments or condominiums (private rear yards for townhomes; common courtyards, roof gardens, or gathering spaces for multi-family developments). These standards shall not apply to balconies or small attached patios in multistoried multi-family structures.

h Applies to the Central City and areas with a Residential Mixed-Use designation.

i All mixed-use projects located anywhere in the City of Sacramento.

j See notes d and g above for definition of primary open space areas for single-family and multi-family developments.

ERC-10.3 Interior Noise Standards. The City shall require new development to include noise attenuation to assure acceptable interior noise levels appropriate to the land use, as follows:

- 45 dBA L_{dn} for residential, transient lodgings, hospitals, nursing homes, and other uses where people normally sleep; and
- 45 dBA L_{eq} (peak hour with windows closed) for office buildings and similar uses.

ERC-10.9 Construction Noise Controls. The City shall limit the potential noise impacts of construction activities on surrounding land uses through noise regulations in the City Code that address permitted days and hours of construction, types of work, construction equipment, and sound attenuation devices.

City of Sacramento Municipal Code – 8.86.060 Exterior Noise Standards

The City of Sacramento Municipal Code, Section 8.68.060 establishes and allowable exterior noise level limit of 55 dBA L_{50} and 75 dBA L_{max} during daytime (7:00 a.m. to 10:00 p.m.) hours and 50 dBA L_{50} and 70 dBA L_{max} during nighttime (10:00 p.m. to 7:00 a.m.) for sources of noise which occur for more than 30 minutes per hour (L_{50}).

If the existing ambient noise level exceeds the 50/55 dBA L_{50} standard the allowable limit is increased in 5 dBA increments to encompass the ambient noise level. If the existing ambient noise level exceeds the 70/75 dBA L_{max} noise standard, the limit becomes the measured L_{max} existing ambient noise level. For example, if measured existing ambient daytime noise levels are 57 dBA L_{50} and 77 dBA L_{max} , the noise ordinance limits would be 60 dBA L_{50} and 77 dBA L_{max} . The City of Sacramento Municipal Code standards are summarized in **Table 11** below.

TABLE 11: STATIONARY NOISE SOURCE NOISE STANDARDS

Noise Level Descriptor	Outdoor Activity Areas Daytime (7 a.m. to 10 p.m.)	Outdoor Activity Areas Nighttime (10 p.m. to 7 a.m.)
Hourly equivalent sound level (L_{50}), dB	55	50
Maximum sound level (L_{max}), dB	75	70

Source: City of Sacramento Municipal Code

Summary of Relevant Noise Level Criteria

The City of Sacramento and the County of Sacramento General Plan/Noise Ordinance share similar noise level standards for “Stationary” (non-transportation) noise sources. The project, which shall be considered to be a “Stationary” noise source, shall not be permitted to generate noise levels exceeding 55 dBA L_{50} or 75 dBA L_{max} during daytime (7:00 a.m. to 10:00 p.m.) hours and 50 dBA L_{50} or 70 dBA L_{max} during nighttime (10:00 p.m. to 7:00 a.m.) hours at the adjacent noise sensitive receptors.

Criteria for Acceptable Vibration

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise,

vibration consists of an amplitude and frequency. A person’s perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 12**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

TABLE 12: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

Peak Particle Velocity		Human Reaction	Effect on Buildings
mm/second	in/second		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of “architectural” damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of “architectural” damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize “architectural” damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause “architectural” damage and possibly minor structural damage

Source: *Transportation Related Earthborne Vibrations*. Caltrans. TAV-02-01-R9601. February 20, 2002.

IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-f]).

Would the project:

- a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- b. Generate excessive groundborne vibration or groundborne noise levels?
- c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Noise Level Increase Criteria for Long-Term Project-Related Noise Level Increases

The California Environmental Quality Act (CEQA) guidelines define a significant impact of a project if it “increases substantially the ambient noise levels for adjoining areas.” Generally, a project may have a significant effect on the environment if it will substantially increase the ambient noise levels for adjoining areas or expose people to severe noise levels. In practice, more specific professional standards have been developed. These standards state that a noise impact may be considered significant if it would generate noise that would conflict with local project criteria or ordinances, or substantially increase noise levels at noise sensitive land uses. The potential increase in traffic noise from the project is a factor in determining significance. Research into the human perception of changes in sound level indicates the following:

- A 3-dB change is barely perceptible,
- A 5-dB change is clearly perceptible, and
- A 10-dB change is perceived as being twice or half as loud.

A limitation of using a single noise level increase value to evaluate noise impacts is that it fails to account for pre-project noise conditions. **Table 13** is based upon recommendations made by the Federal Interagency Committee on Noise (FICON) to provide guidance in the assessment of changes in ambient noise levels resulting from aircraft operations. The recommendations are based upon studies that relate aircraft noise levels to the percentage of persons highly annoyed by the noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, it has been accepted that they are applicable to all sources of noise described in terms of cumulative noise exposure metrics such as the L_{dn} .

TABLE 13: SIGNIFICANCE OF CHANGES IN NOISE EXPOSURE

Ambient Noise Level Without Project, L_{dn}	Increase Required for Significant Impact
<60 dB	+5.0 dB or more
60-65 dB	+3.0 dB or more
>65 dB	+1.5 dB or more

Source: Federal Interagency Committee on Noise (FICON).

Based on the **Table 13** data, an increase in the traffic noise level of 5 dB or more would be significant where the pre-project noise levels are less than 60 dB L_{dn} , or 3 dB or more where existing noise levels are between 60 to 65 dB L_{dn} . Extending this concept to higher noise levels, an increase in the traffic noise level of 1.5 dB or more may be significant where the pre-project traffic noise level exceeds 65 dB L_{dn} . The rationale for the **Table 13** criteria is that, as ambient noise levels increase, a smaller increase in noise resulting from a project is sufficient to cause annoyance.

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

Impact 1: *Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

Traffic Noise Increases at Off-Site Receptors

The FICON guidelines specifies criteria, as seen in **Table 13** to determine the significance of traffic noise impacts. A traffic noise increase of 5 dB or more is significant if pre-project levels are under 60 dB L_{dn} , or 3 dB or more if existing levels are 60-65 dB L_{dn} . For higher levels exceeding 65 dB L_{dn} , a 1.5 dB increase would be considered be significant. According to **Tables 3 and 4**, the maximum noise level increase along Powerline Road is predicted to be 4.4 dBA L_{dn} . For this roadway segment, the existing ambient noise level at the nearest sensitive receptor is 53.2 dBA which is less than the 5 dB significance increase criterion. The highest ambient noise level of 62.9 dBA occurs directly adjacent to Bayou Way. The noise level increase along this segment is predicted to be 1.0 dBA which is less than the 3 dB significant increase criterion where noise levels range from 60 dBA L_{dn} to 65 dBA L_{dn} .

Therefore, impacts resulting from increased traffic noise would be considered **less-than-significant**.

Operational Noise at Sensitive Receptors

The City of Sacramento and County of Sacramento noise level standards require that new projects in the vicinity of existing sensitive receptors generate noise levels no greater than 55 dBA L_{50} and 75 dBA L_{max} during daytime (7:00 a.m. to 10:00 p.m.) hours and 50 dBA L_{50} and 70 dBA L_{max} during nighttime (10:00 p.m. to 7:00 a.m.) hours.

As shown on **Figure 4**, the proposed project, along with the future phase, is predicted to comply with the City’s daytime 55 dBA L_{50} (7:00 a.m. to 10:00 p.m.) noise level standard without any additional noise control measures.

As shown on **Figure 5**, the proposed project, along with the future phase, is predicted to exceed the City's nighttime 50 dBA L_{50} (10:00 p.m. to 7:00 a.m.) noise level standard without any additional noise control measures. Therefore, impacts resulting from operational noise would be considered potentially significant and mitigation would be required.

A six-foot sound wall was assumed to enclose the single family residentials to the north of the proposed project, across I-5. It is likely that a much taller wall could be required here to shield noise from Interstate 5. Therefore, a 6-foot wall is considered conservative.

It should be noted that maximum noise levels generated by on-site vehicle circulation loading docks are predicted to be 20 dBA, or less, than the median (L_{50}) values. The maximum (L_{max}) nighttime noise level standard is 70 dBA L_{max} , which is 20 dBA higher than the median noise standard of 50 dBA L_{50} . Therefore, where median noise levels are in compliance with the L_{50} standards, maximum noise levels will also comply.

Saxelby Acoustics recommends the construction of an 8-foot-tall sound wall to reduce the noise levels emanating from the project site. The wall locations and resulting contours are shown on **Figure 6 and 7**. Implementation of this mitigation measure would reduce operational noise impacts to **less-than-significant**.

Construction Noise

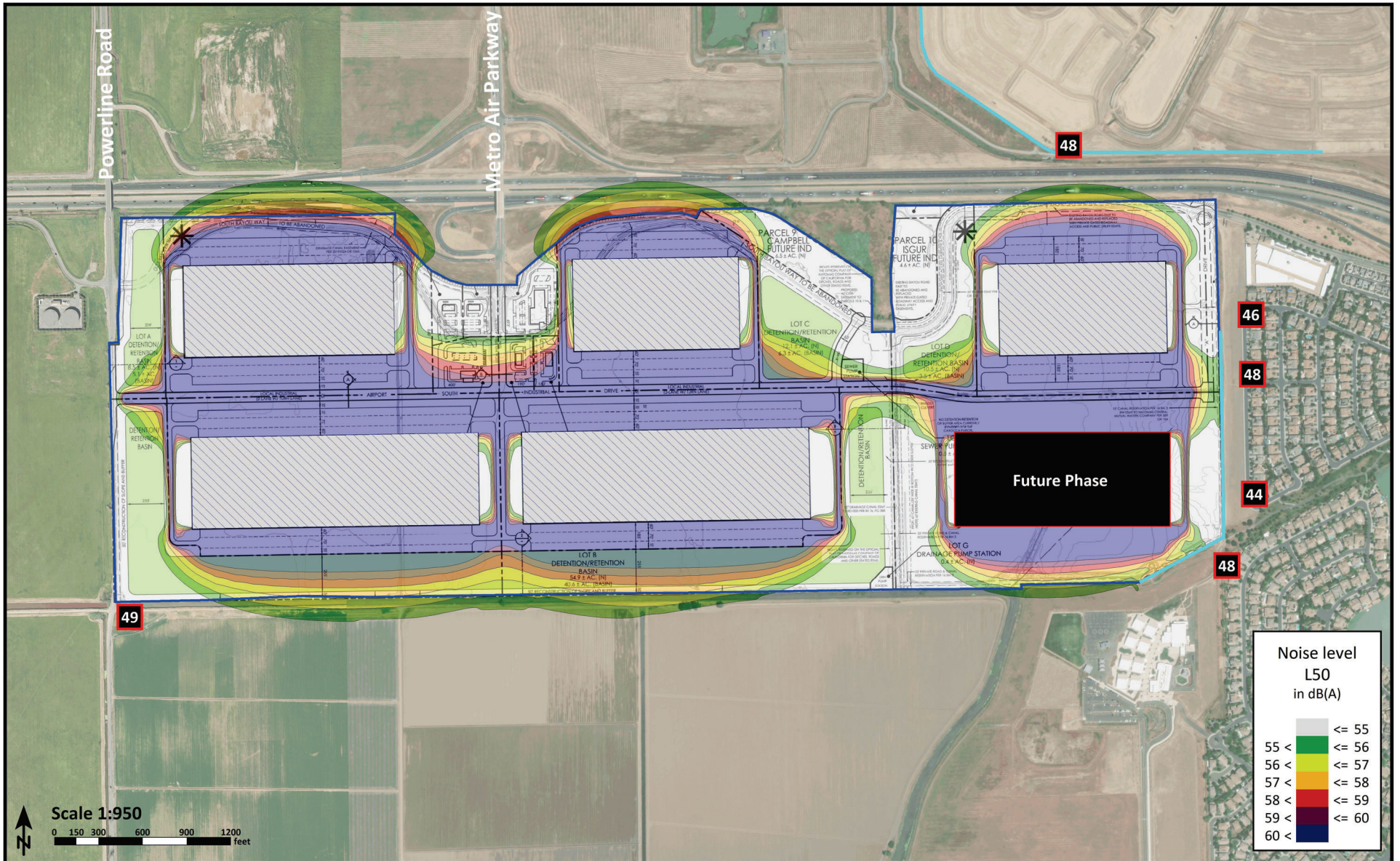
The noise increase during construction would be of short duration and would likely occur primarily during daytime hours. The City of Sacramento's Noise Ordinance of the Municipal Code exempts construction activities from the noise standards, provided that construction takes place between the hours of 7:00 AM and 6:00 PM Monday through Saturday and 9:00 AM and 6:00 PM Sundays and holidays. Although the construction activities could result in infrequent periods of high noise, the construction noise would not be sustained and would only occur only during the City's permitted construction noise hours.

This is a **less-than-significant** impact, and no mitigation is required.

Mitigation Measures

1a: An 8-foot-tall sound wall shall be constructed along the eastern project boundary in order to achieve the City's nighttime 50 L_{50} noise standards. Noise barrier walls shall be constructed of concrete panels, concrete masonry units, earthen berms, or any combination of these materials that achieve the required total height. Wood is not recommended due to eventual warping and degradation of acoustical performance. These requirements shall be included in the improvements plans prior to their approval by the City's Public Works Department. **Figures 6 and 7** shows the recommended sound wall location.

Implementation of mitigation measures 1(a) would help to reduce construction-generated noise levels. With mitigation, this impact would be considered **less-than-significant**.



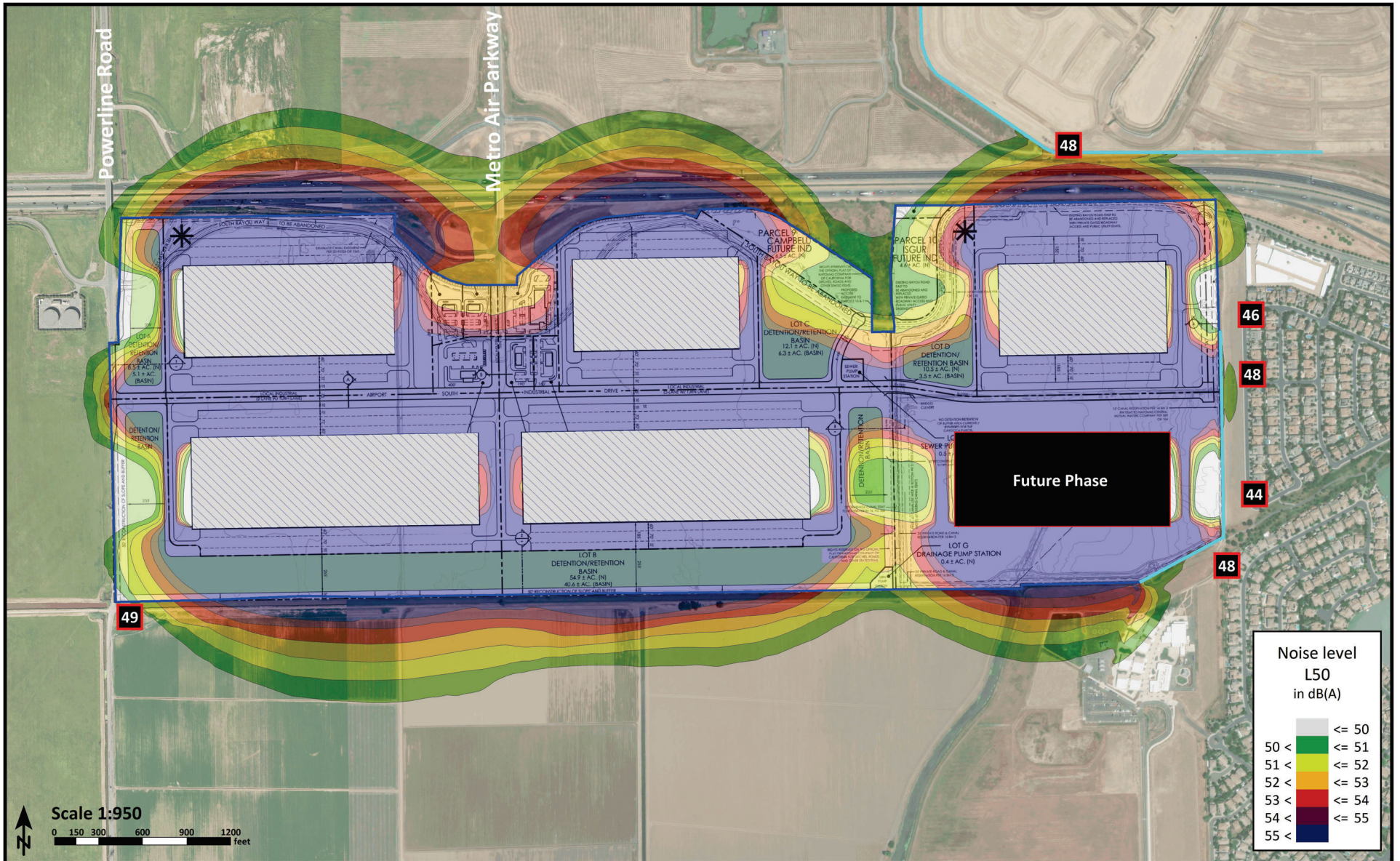
Airport S. Industrial Park

City of Sacramento, California

Figure 6
Daytime Project-Generated Noise Levels with 8-Foot Wall (dB(A) L50)

- Legend**
- Project Building
 - Project Site
 - Noise Level
 - Sound Wall





Airport S. Industrial Park

City of Sacramento, California

Figure 7
Nighttime Project-Generated Noise Levels with 8-Foot Wall (dB(A) L50)



Impact 2: *Would the project generate excessive groundborne vibration or groundborne noise levels?*

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

Table 6 data indicates that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 150 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a **less-than-significant** impact, and no mitigation is required.

Impact 3: *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

Based upon **Figure 4**, the proposed project is located approximately 0.43 miles outside of the predicted 75 dBA CNEL noise contour. According to **Table 8** of the Sacramento International Airport Land Use Compatibility Chart, the noise environment of the proposed project is considered normally acceptable.

This is a **less-than-significant** impact, and no mitigation is required.

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Appendix A: Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
ASTC	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
DNL	See definition of Ldn.
IIC	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
Ldn	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
Lmax	The highest root-mean-square (RMS) sound level measured over a given period of time.
L(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
NIC	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
NNIC	Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation.
Noise	Unwanted sound.
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
RT60	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
SPC	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.

Appendix B: Continuous Ambient Noise Measurement Results



Appendix B1a: Continuous Noise Monitoring Results

Site: LT-1 Day 1

Project: Airport S. Industrial Park

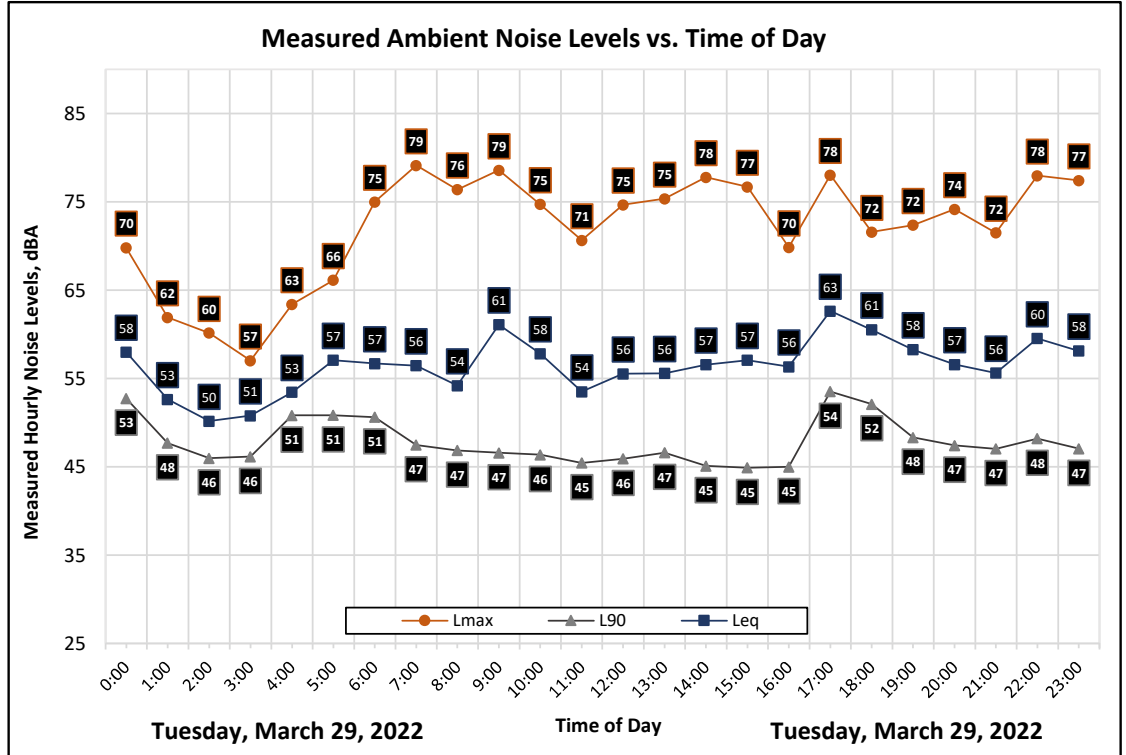
Location: North-East Project Boundary

Coordinates: 38.668647°, -121.549542°

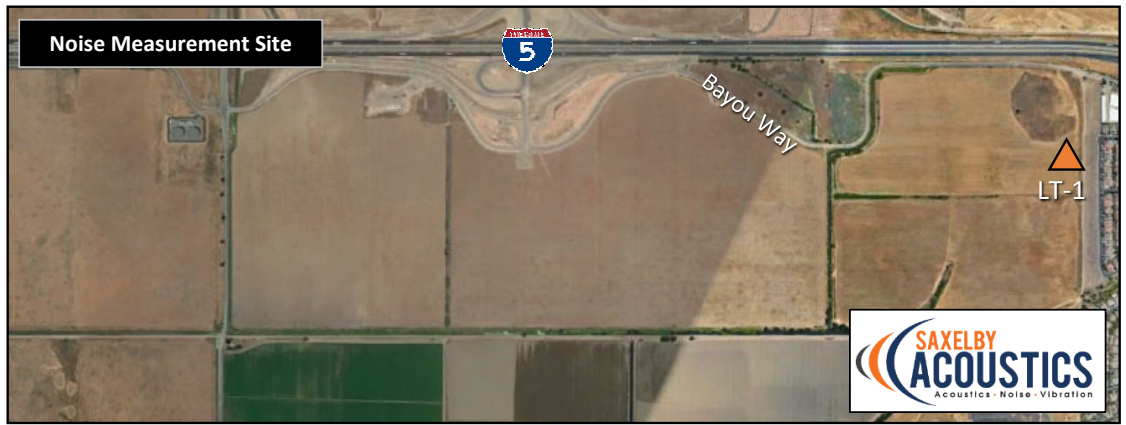
Meter: LDL 820-5

Calibrator: CAL200

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Tuesday, March 29, 2022	0:00	58	70	57	53
Tuesday, March 29, 2022	1:00	53	62	52	48
Tuesday, March 29, 2022	2:00	50	60	50	46
Tuesday, March 29, 2022	3:00	51	57	50	46
Tuesday, March 29, 2022	4:00	53	63	53	51
Tuesday, March 29, 2022	5:00	57	66	56	51
Tuesday, March 29, 2022	6:00	57	75	53	51
Tuesday, March 29, 2022	7:00	56	79	50	47
Tuesday, March 29, 2022	8:00	54	76	49	47
Tuesday, March 29, 2022	9:00	61	79	49	47
Tuesday, March 29, 2022	10:00	58	75	49	46
Tuesday, March 29, 2022	11:00	54	71	48	45
Tuesday, March 29, 2022	12:00	56	75	49	46
Tuesday, March 29, 2022	13:00	56	75	50	47
Tuesday, March 29, 2022	14:00	57	78	49	45
Tuesday, March 29, 2022	15:00	57	77	48	45
Tuesday, March 29, 2022	16:00	56	70	52	45
Tuesday, March 29, 2022	17:00	63	78	60	54
Tuesday, March 29, 2022	18:00	61	72	59	52
Tuesday, March 29, 2022	19:00	58	72	54	48
Tuesday, March 29, 2022	20:00	57	74	51	47
Tuesday, March 29, 2022	21:00	56	72	51	47
Tuesday, March 29, 2022	22:00	60	78	55	48
Tuesday, March 29, 2022	23:00	58	77	53	47



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	58	75	51	47
Night Average	56	68	53	49
Day Low	54	70	48	45
Day High	63	79	60	54
Night Low	50	57	50	46
Night High	58	78	57	53
L _{dn}	62	Day %	76	
CNEL	62	Night %	24	



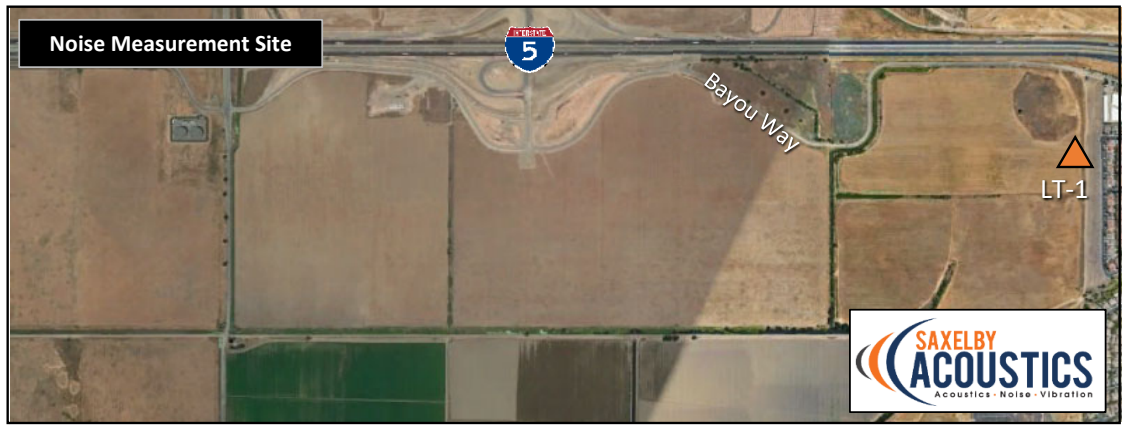
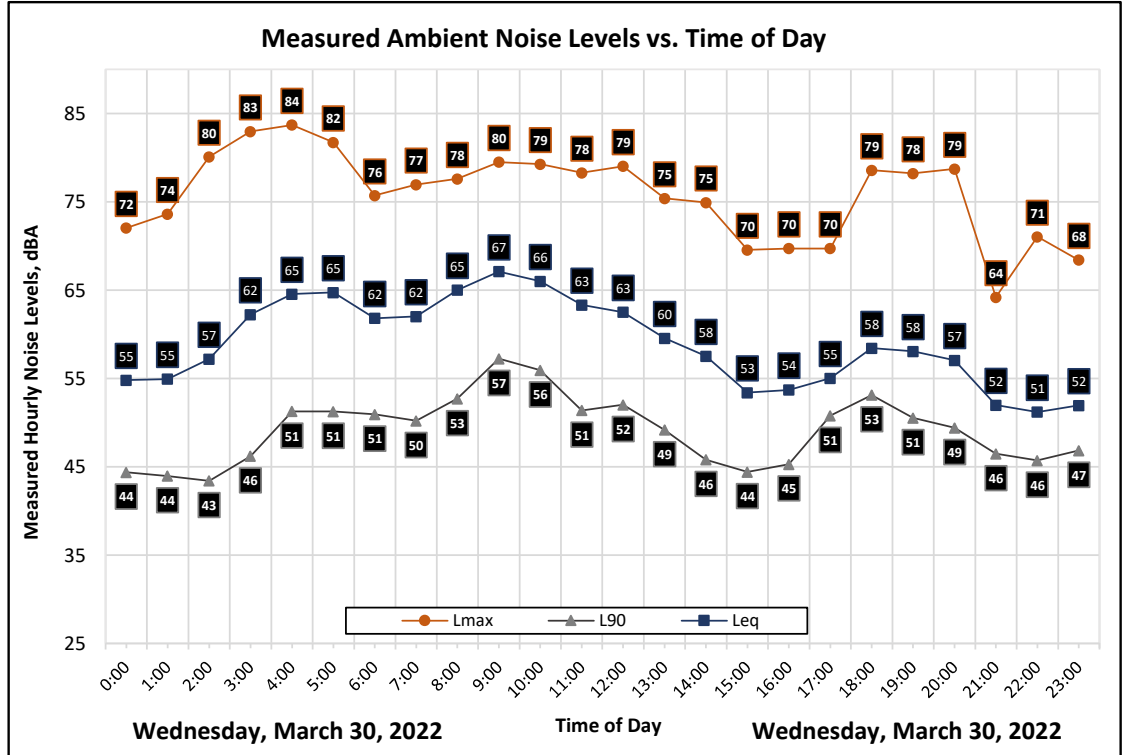
Appendix B1b: Continuous Noise Monitoring Results

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Wednesday, March 30, 2022	0:00	55	72	49	44
Wednesday, March 30, 2022	1:00	55	74	50	44
Wednesday, March 30, 2022	2:00	57	80	50	43
Wednesday, March 30, 2022	3:00	62	83	55	46
Wednesday, March 30, 2022	4:00	65	84	60	51
Wednesday, March 30, 2022	5:00	65	82	60	51
Wednesday, March 30, 2022	6:00	62	76	57	51
Wednesday, March 30, 2022	7:00	62	77	59	50
Wednesday, March 30, 2022	8:00	65	78	62	53
Wednesday, March 30, 2022	9:00	67	80	64	57
Wednesday, March 30, 2022	10:00	66	79	64	56
Wednesday, March 30, 2022	11:00	63	78	60	51
Wednesday, March 30, 2022	12:00	63	79	60	52
Wednesday, March 30, 2022	13:00	60	75	56	49
Wednesday, March 30, 2022	14:00	58	75	51	46
Wednesday, March 30, 2022	15:00	53	70	48	44
Wednesday, March 30, 2022	16:00	54	70	51	45
Wednesday, March 30, 2022	17:00	55	70	53	51
Wednesday, March 30, 2022	18:00	58	79	55	53
Wednesday, March 30, 2022	19:00	58	78	53	51
Wednesday, March 30, 2022	20:00	57	79	52	49
Wednesday, March 30, 2022	21:00	52	64	50	46
Wednesday, March 30, 2022	22:00	51	71	49	46
Wednesday, March 30, 2022	23:00	52	68	50	47

Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	62	75	56	50
Night Average	61	77	53	47
Day Low	52	64	48	44
Day High	67	80	64	57
Night Low	52	68	49	43
Night High	65	84	60	51
L _{dn}	67	Day %	68	
CNEL	67	Night %	32	

Site: LT-1 Day 2
 Project: Airport S. Industrial Park
 Location: North-East Project Boundary
 Coordinates: 38.668647°, -121.549542°

Meter: LDL 820-5
 Calibrator: CAL200



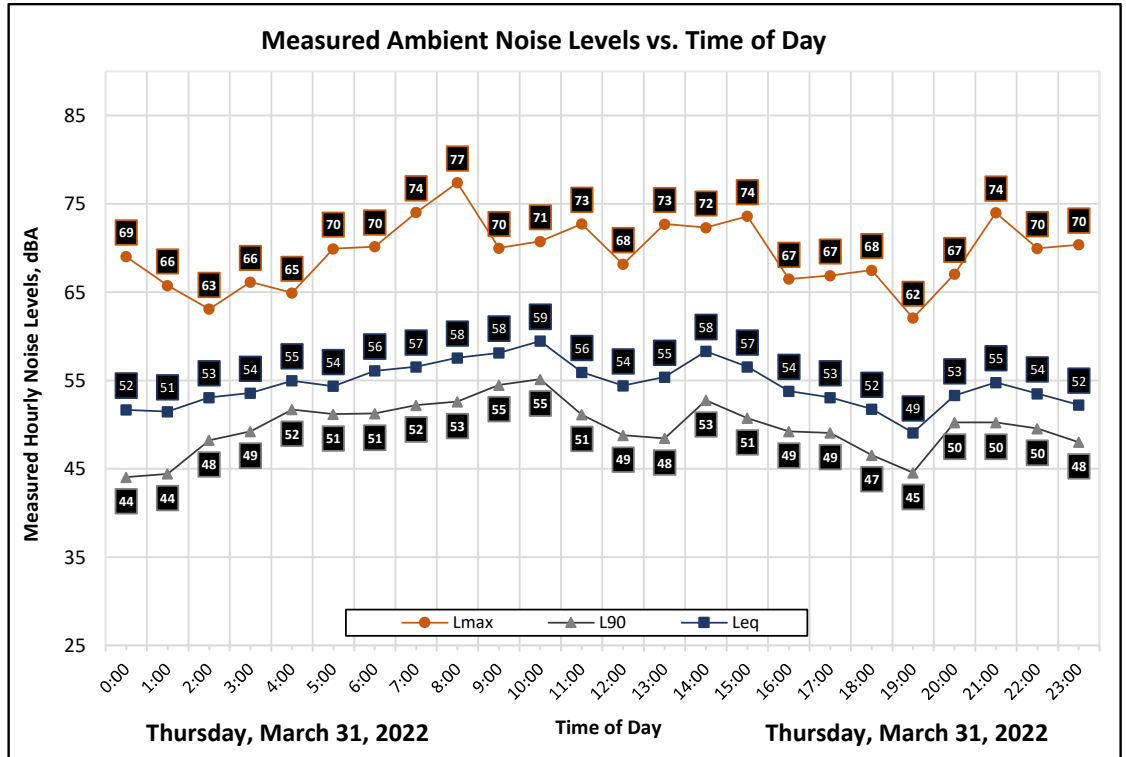
Appendix B1c: Continuous Noise Monitoring Results

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Thursday, March 31, 2022	0:00	52	69	47	44
Thursday, March 31, 2022	1:00	51	66	50	44
Thursday, March 31, 2022	2:00	53	63	52	48
Thursday, March 31, 2022	3:00	54	66	53	49
Thursday, March 31, 2022	4:00	55	65	54	52
Thursday, March 31, 2022	5:00	54	70	53	51
Thursday, March 31, 2022	6:00	56	70	54	51
Thursday, March 31, 2022	7:00	57	74	54	52
Thursday, March 31, 2022	8:00	58	77	55	53
Thursday, March 31, 2022	9:00	58	70	57	55
Thursday, March 31, 2022	10:00	59	71	58	55
Thursday, March 31, 2022	11:00	56	73	54	51
Thursday, March 31, 2022	12:00	54	68	53	49
Thursday, March 31, 2022	13:00	55	73	53	48
Thursday, March 31, 2022	14:00	58	72	56	53
Thursday, March 31, 2022	15:00	57	74	54	51
Thursday, March 31, 2022	16:00	54	67	53	49
Thursday, March 31, 2022	17:00	53	67	52	49
Thursday, March 31, 2022	18:00	52	68	50	47
Thursday, March 31, 2022	19:00	49	62	47	45
Thursday, March 31, 2022	20:00	53	67	52	50
Thursday, March 31, 2022	21:00	55	74	52	50
Thursday, March 31, 2022	22:00	54	70	52	50
Thursday, March 31, 2022	23:00	52	70	50	48

Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	56	70	53	50
Night Average	54	68	52	49
Day Low	49	62	47	45
Day High	59	77	58	55
Night Low	51	63	47	44
Night High	56	70	54	52
L _{dn}	60	Day %	76	
CNEL	60	Night %	24	

Site: LT-1 Day 3
 Project: Airport S. Industrial Park
 Location: North-East Project Boundary
 Coordinates: 38.668647°, -121.549542°

Meter: LDL 820-5
 Calibrator: CAL200



Appendix B2a: Continuous Noise Monitoring Results

Site: LT-2 Day 1

Project: Airport S. Industrial Park

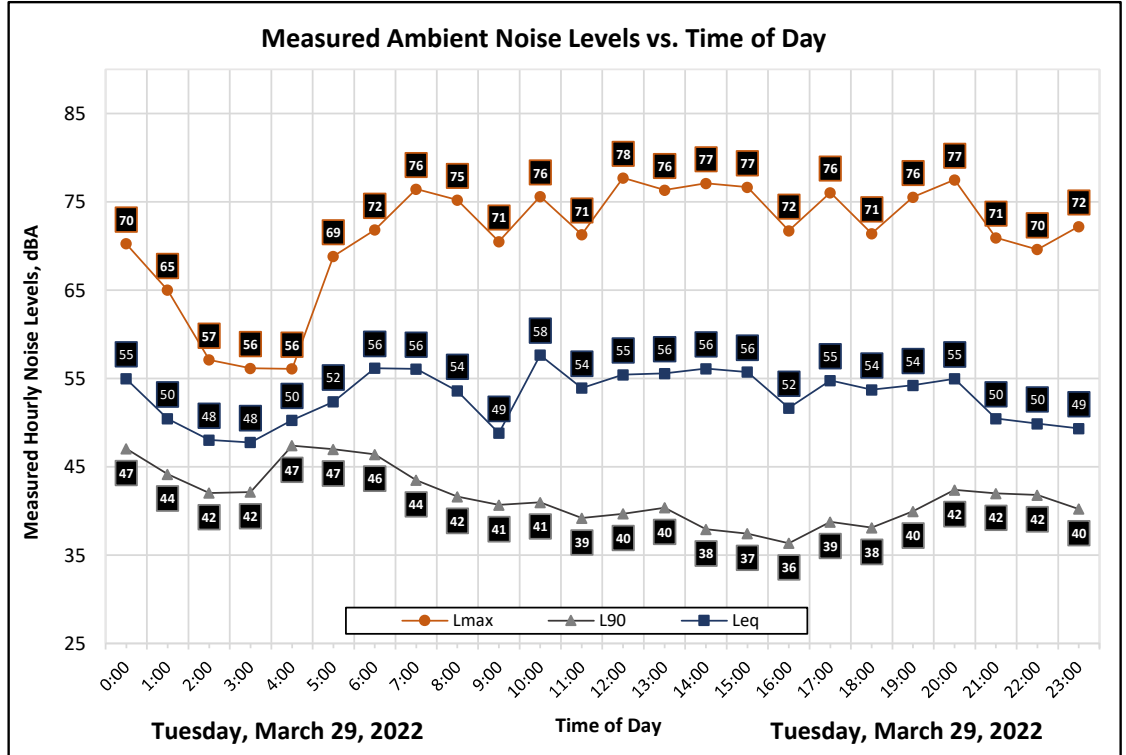
Location: East Project Boundary

Coordinates: 38.6660145°, -121.5495392°

Meter: LDL 820-5

Calibrator: CAL200

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Tuesday, March 29, 2022	0:00	55	70	51	47
Tuesday, March 29, 2022	1:00	50	65	49	44
Tuesday, March 29, 2022	2:00	48	57	46	42
Tuesday, March 29, 2022	3:00	48	56	47	42
Tuesday, March 29, 2022	4:00	50	56	50	47
Tuesday, March 29, 2022	5:00	52	69	50	47
Tuesday, March 29, 2022	6:00	56	72	48	46
Tuesday, March 29, 2022	7:00	56	76	46	44
Tuesday, March 29, 2022	8:00	54	75	44	42
Tuesday, March 29, 2022	9:00	49	71	43	41
Tuesday, March 29, 2022	10:00	58	76	44	41
Tuesday, March 29, 2022	11:00	54	71	41	39
Tuesday, March 29, 2022	12:00	55	78	42	40
Tuesday, March 29, 2022	13:00	56	76	44	40
Tuesday, March 29, 2022	14:00	56	77	41	38
Tuesday, March 29, 2022	15:00	56	77	41	37
Tuesday, March 29, 2022	16:00	52	72	39	36
Tuesday, March 29, 2022	17:00	55	76	41	39
Tuesday, March 29, 2022	18:00	54	71	41	38
Tuesday, March 29, 2022	19:00	54	76	42	40
Tuesday, March 29, 2022	20:00	55	77	44	42
Tuesday, March 29, 2022	21:00	50	71	43	42
Tuesday, March 29, 2022	22:00	50	70	43	42
Tuesday, March 29, 2022	23:00	49	72	42	40



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	55	75	42	40
Night Average	52	65	47	44
Day Low	49	71	39	36
Day High	58	78	46	44
Night Low	48	56	42	40
Night High	56	72	51	47
L _{dn}	59	Day %	77	
CNEL	59	Night %	23	



Appendix B2b: Continuous Noise Monitoring Results

Site: LT-2 Day 2

Project: Airport S. Industrial Park

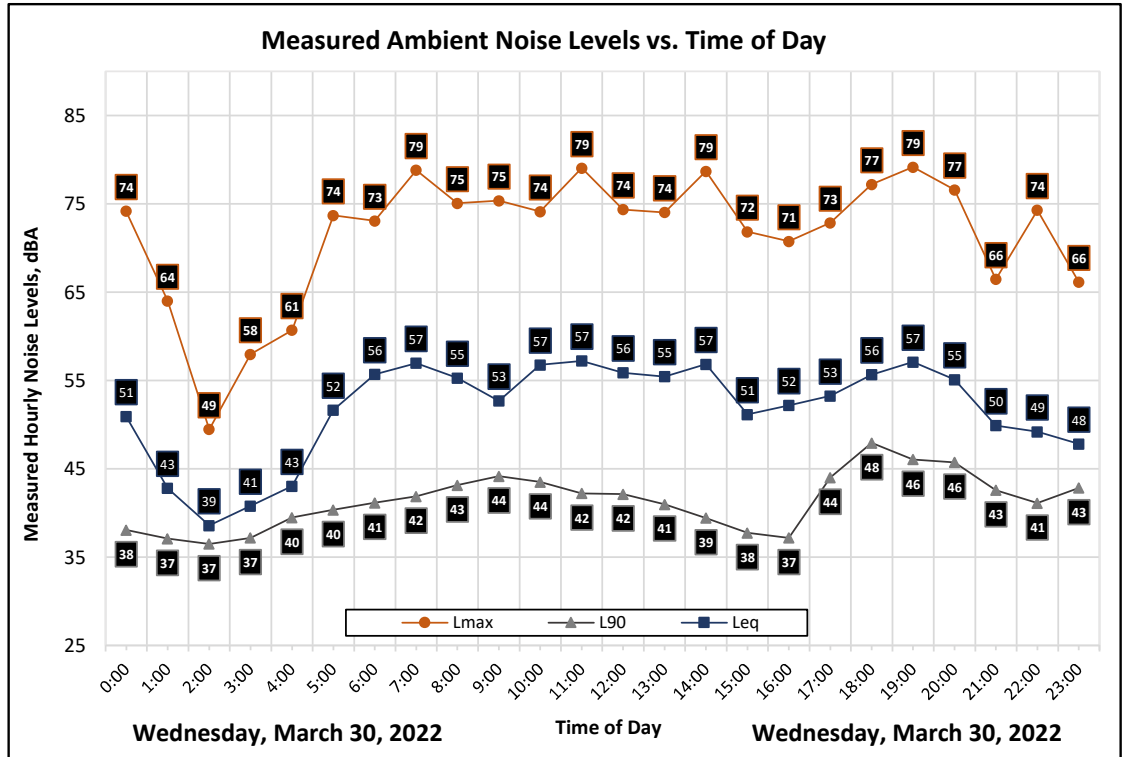
Location: East Project Boundary

Coordinates: 38.6660145°, -121.5495392°

Meter: LDL 820-6

Calibrator: CAL200

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Wednesday, March 30, 2022	0:00	51	74	40	38
Wednesday, March 30, 2022	1:00	43	64	39	37
Wednesday, March 30, 2022	2:00	39	49	38	37
Wednesday, March 30, 2022	3:00	41	58	40	37
Wednesday, March 30, 2022	4:00	43	61	42	40
Wednesday, March 30, 2022	5:00	52	74	43	40
Wednesday, March 30, 2022	6:00	56	73	43	41
Wednesday, March 30, 2022	7:00	57	79	44	42
Wednesday, March 30, 2022	8:00	55	75	46	43
Wednesday, March 30, 2022	9:00	53	75	47	44
Wednesday, March 30, 2022	10:00	57	74	46	44
Wednesday, March 30, 2022	11:00	57	79	45	42
Wednesday, March 30, 2022	12:00	56	74	45	42
Wednesday, March 30, 2022	13:00	55	74	44	41
Wednesday, March 30, 2022	14:00	57	79	42	39
Wednesday, March 30, 2022	15:00	51	72	40	38
Wednesday, March 30, 2022	16:00	52	71	44	37
Wednesday, March 30, 2022	17:00	53	73	47	44
Wednesday, March 30, 2022	18:00	56	77	50	48
Wednesday, March 30, 2022	19:00	57	79	49	46
Wednesday, March 30, 2022	20:00	55	77	48	46
Wednesday, March 30, 2022	21:00	50	66	45	43
Wednesday, March 30, 2022	22:00	49	74	44	41
Wednesday, March 30, 2022	23:00	48	66	46	43



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	55	75	45	43
Night Average	50	66	41	39
Day Low	50	66	40	37
Day High	57	79	50	48
Night Low	39	49	38	37
Night High	56	74	46	43
L _{dn}	57	Day %	87	
CNEL	58	Night %	13	



Appendix B2c: Continuous Noise Monitoring Results

Site: LT-2 Day 3

Project: Airport S. Industrial Park

Meter: LDL 820-6

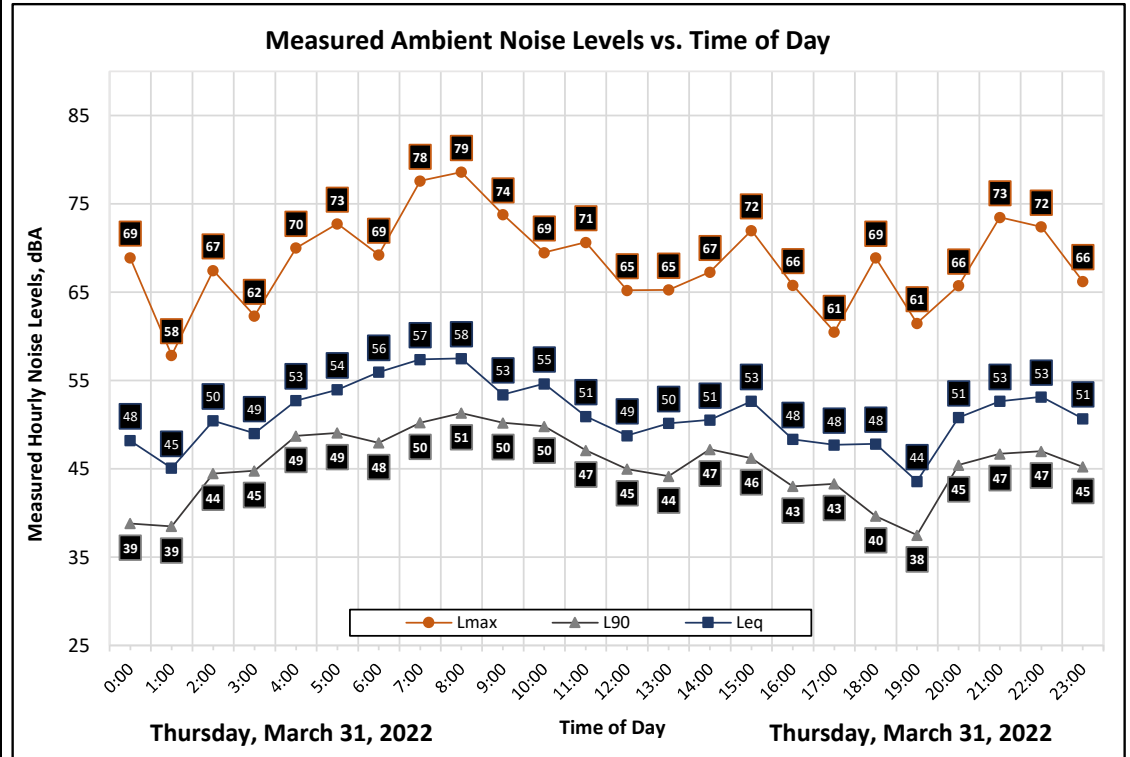
Location: East Project Boundary

Calibrator: CAL200

Coordinates: 38.6660145°, -121.5495392°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Thursday, March 31, 2022	0:00	48	69	42	39
Thursday, March 31, 2022	1:00	45	58	44	39
Thursday, March 31, 2022	2:00	50	67	49	44
Thursday, March 31, 2022	3:00	49	62	48	45
Thursday, March 31, 2022	4:00	53	70	52	49
Thursday, March 31, 2022	5:00	54	73	51	49
Thursday, March 31, 2022	6:00	56	69	53	48
Thursday, March 31, 2022	7:00	57	78	53	50
Thursday, March 31, 2022	8:00	58	79	53	51
Thursday, March 31, 2022	9:00	53	74	52	50
Thursday, March 31, 2022	10:00	55	69	52	50
Thursday, March 31, 2022	11:00	51	71	50	47
Thursday, March 31, 2022	12:00	49	65	47	45
Thursday, March 31, 2022	13:00	50	65	49	44
Thursday, March 31, 2022	14:00	51	67	49	47
Thursday, March 31, 2022	15:00	53	72	49	46
Thursday, March 31, 2022	16:00	48	66	47	43
Thursday, March 31, 2022	17:00	48	61	46	43
Thursday, March 31, 2022	18:00	48	69	45	40
Thursday, March 31, 2022	19:00	44	61	40	38
Thursday, March 31, 2022	20:00	51	66	47	45
Thursday, March 31, 2022	21:00	53	73	49	47
Thursday, March 31, 2022	22:00	53	72	50	47
Thursday, March 31, 2022	23:00	51	66	48	45

Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	53	69	49	46
Night Average	52	67	48	45
Day Low	44	61	40	38
Day High	58	79	53	51
Night Low	45	58	42	39
Night High	56	73	53	49
L _{dn}	58	Day %	69	
CNEL	58	Night %	31	



Appendix B3a: Continuous Noise Monitoring Results

Site: LT-3 Day 1

Project: Airport S. Industrial Park

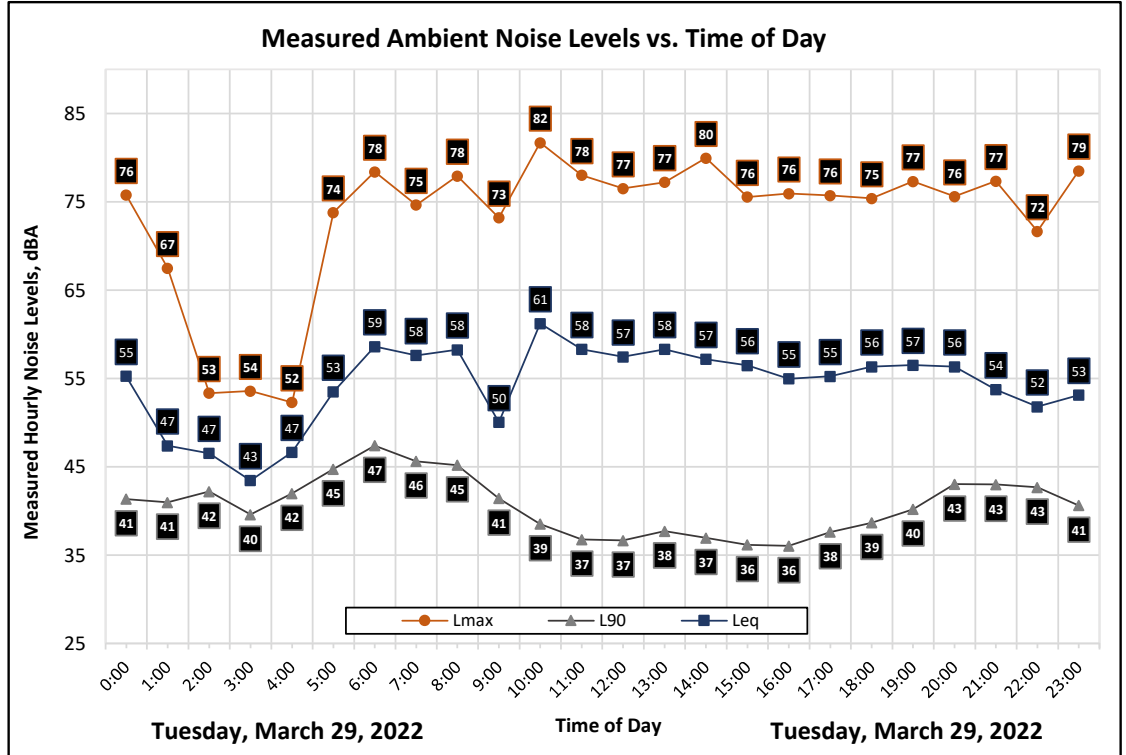
Meter: LDL 820-7

Location: South Project Boundary

Calibrator: CAL200

Coordinates: 38.6609574°, -121.5739845°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Tuesday, March 29, 2022	0:00	55	76	45	41
Tuesday, March 29, 2022	1:00	47	67	45	41
Tuesday, March 29, 2022	2:00	47	53	46	42
Tuesday, March 29, 2022	3:00	43	54	43	40
Tuesday, March 29, 2022	4:00	47	52	46	42
Tuesday, March 29, 2022	5:00	53	74	48	45
Tuesday, March 29, 2022	6:00	59	78	49	47
Tuesday, March 29, 2022	7:00	58	75	48	46
Tuesday, March 29, 2022	8:00	58	78	47	45
Tuesday, March 29, 2022	9:00	50	73	43	41
Tuesday, March 29, 2022	10:00	61	82	45	39
Tuesday, March 29, 2022	11:00	58	78	41	37
Tuesday, March 29, 2022	12:00	57	77	39	37
Tuesday, March 29, 2022	13:00	58	77	40	38
Tuesday, March 29, 2022	14:00	57	80	39	37
Tuesday, March 29, 2022	15:00	56	76	38	36
Tuesday, March 29, 2022	16:00	55	76	38	36
Tuesday, March 29, 2022	17:00	55	76	41	38
Tuesday, March 29, 2022	18:00	56	75	42	39
Tuesday, March 29, 2022	19:00	57	77	43	40
Tuesday, March 29, 2022	20:00	56	76	45	43
Tuesday, March 29, 2022	21:00	54	77	45	43
Tuesday, March 29, 2022	22:00	52	72	45	43
Tuesday, March 29, 2022	23:00	53	79	43	41



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	57	77	42	40
Night Average	53	67	46	42
Day Low	50	73	38	36
Day High	61	82	48	46
Night Low	43	52	43	40
Night High	59	79	49	47
L _{dn}	60	Day %	82	
CNEL	60	Night %	18	

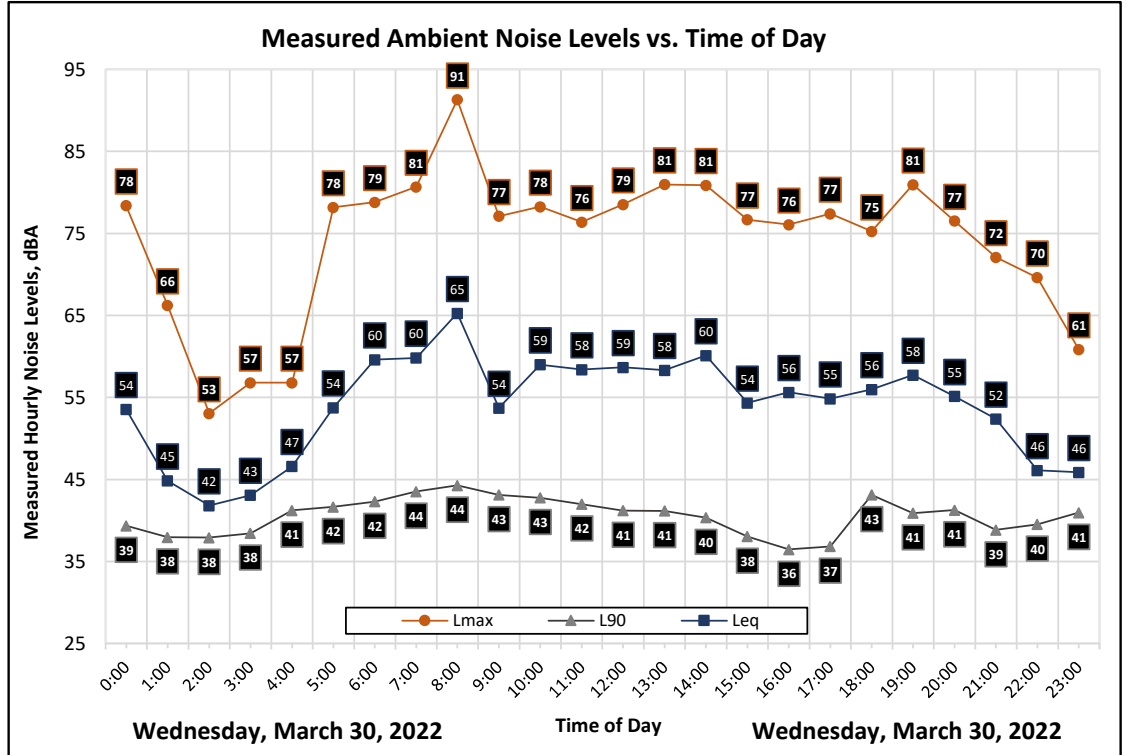


Appendix B3b: Continuous Noise Monitoring Results

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Wednesday, March 30, 2022	0:00	54	78	42	39
Wednesday, March 30, 2022	1:00	45	66	40	38
Wednesday, March 30, 2022	2:00	42	53	40	38
Wednesday, March 30, 2022	3:00	43	57	41	38
Wednesday, March 30, 2022	4:00	47	57	45	41
Wednesday, March 30, 2022	5:00	54	78	45	42
Wednesday, March 30, 2022	6:00	60	79	45	42
Wednesday, March 30, 2022	7:00	60	81	46	44
Wednesday, March 30, 2022	8:00	65	91	48	44
Wednesday, March 30, 2022	9:00	54	77	46	43
Wednesday, March 30, 2022	10:00	59	78	47	43
Wednesday, March 30, 2022	11:00	58	76	45	42
Wednesday, March 30, 2022	12:00	59	79	45	41
Wednesday, March 30, 2022	13:00	58	81	45	41
Wednesday, March 30, 2022	14:00	60	81	43	40
Wednesday, March 30, 2022	15:00	54	77	40	38
Wednesday, March 30, 2022	16:00	56	76	40	36
Wednesday, March 30, 2022	17:00	55	77	43	37
Wednesday, March 30, 2022	18:00	56	75	45	43
Wednesday, March 30, 2022	19:00	58	81	44	41
Wednesday, March 30, 2022	20:00	55	77	44	41
Wednesday, March 30, 2022	21:00	52	72	42	39
Wednesday, March 30, 2022	22:00	46	70	42	40
Wednesday, March 30, 2022	23:00	46	61	44	41

Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	59	79	44	41
Night Average	53	67	43	40
Day Low	52	72	40	36
Day High	65	91	48	44
Night Low	42	53	40	38
Night High	60	79	45	42
L _{dn}	60	Day %	88	
CNEL	61	Night %	12	

Site: LT-3 Day 2
 Project: Airport S. Industrial Park
 Location: South Project Boundary
 Coordinates: 38.6609574°, -121.5739845°
 Meter: LDL 820-7
 Calibrator: CAL200



Appendix B3c: Continuous Noise Monitoring Results

Site: LT-3 Day 3

Project: Airport S. Industrial Park

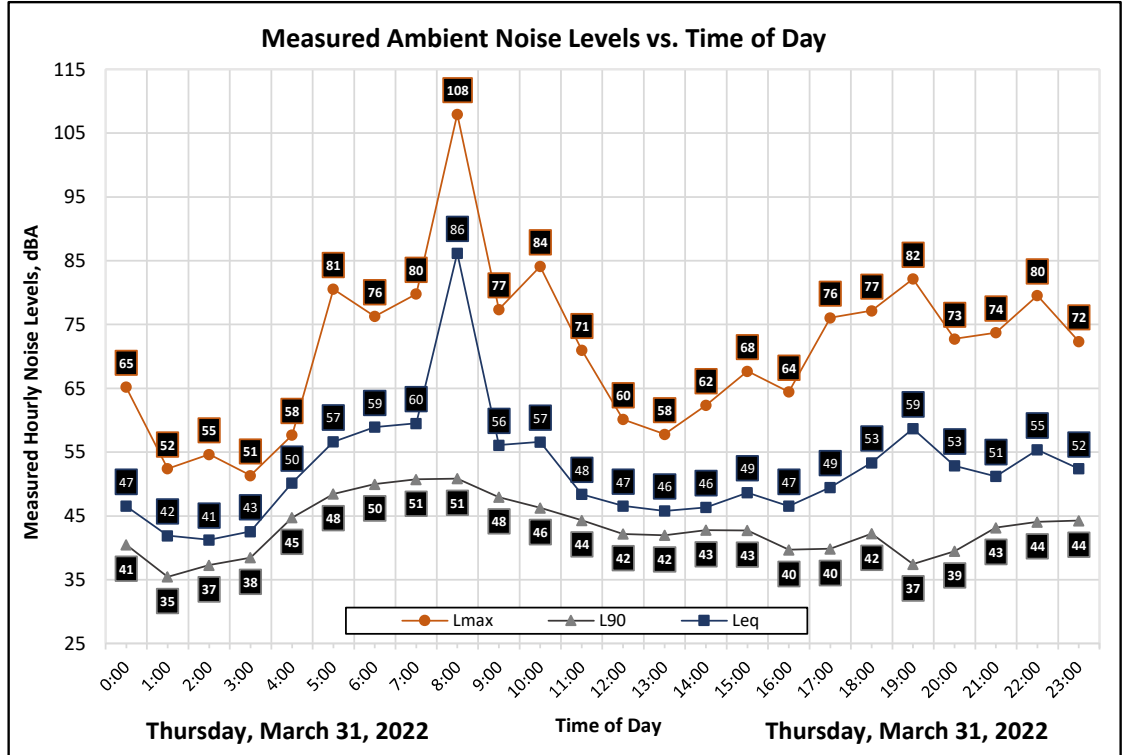
Meter: LDL 820-7

Location: South Project Boundary

Calibrator: CAL200

Coordinates: 38.6609574°, -121.5739845°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Thursday, March 31, 2022	0:00	47	65	44	41
Thursday, March 31, 2022	1:00	42	52	40	35
Thursday, March 31, 2022	2:00	41	55	40	37
Thursday, March 31, 2022	3:00	43	51	41	38
Thursday, March 31, 2022	4:00	50	58	49	45
Thursday, March 31, 2022	5:00	57	81	52	48
Thursday, March 31, 2022	6:00	59	76	52	50
Thursday, March 31, 2022	7:00	60	80	53	51
Thursday, March 31, 2022	8:00	86	108	54	51
Thursday, March 31, 2022	9:00	56	77	50	48
Thursday, March 31, 2022	10:00	57	84	49	46
Thursday, March 31, 2022	11:00	48	71	47	44
Thursday, March 31, 2022	12:00	47	60	45	42
Thursday, March 31, 2022	13:00	46	58	45	42
Thursday, March 31, 2022	14:00	46	62	45	43
Thursday, March 31, 2022	15:00	49	68	45	43
Thursday, March 31, 2022	16:00	47	64	44	40
Thursday, March 31, 2022	17:00	49	76	43	40
Thursday, March 31, 2022	18:00	53	77	45	42
Thursday, March 31, 2022	19:00	59	82	41	37
Thursday, March 31, 2022	20:00	53	73	42	39
Thursday, March 31, 2022	21:00	51	74	46	43
Thursday, March 31, 2022	22:00	55	80	47	44
Thursday, March 31, 2022	23:00	52	72	47	44



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	74	74	46	43
Night Average	53	66	46	43
Day Low	46	58	41	37
Day High	86	108	54	51
Night Low	41	51	40	35
Night High	59	81	52	50
L _{dn}	73	Day %	100	
CNEL	73	Night %	0	



Appendix B4a: Continuous Noise Monitoring Results

Site: LT-4 Day 1

Project: Airport S. Industrial Park

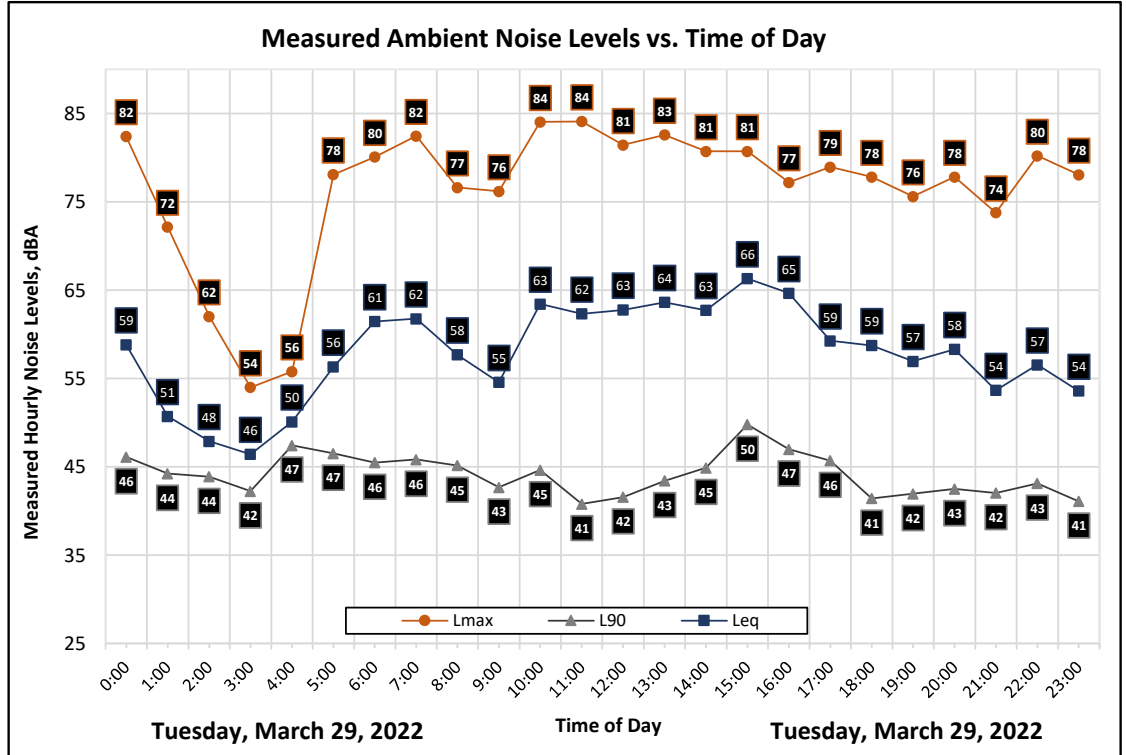
Meter: LDL 820-8

Location: South-West Project Boundary

Calibrator: CAL200

Coordinates: 38.6634105°, -121.5739845°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Tuesday, March 29, 2022	0:00	59	82	51	46
Tuesday, March 29, 2022	1:00	51	72	50	44
Tuesday, March 29, 2022	2:00	48	62	49	44
Tuesday, March 29, 2022	3:00	46	54	48	42
Tuesday, March 29, 2022	4:00	50	56	51	47
Tuesday, March 29, 2022	5:00	56	78	51	47
Tuesday, March 29, 2022	6:00	61	80	52	46
Tuesday, March 29, 2022	7:00	62	82	54	46
Tuesday, March 29, 2022	8:00	58	77	50	45
Tuesday, March 29, 2022	9:00	55	76	51	43
Tuesday, March 29, 2022	10:00	63	84	59	45
Tuesday, March 29, 2022	11:00	62	84	56	41
Tuesday, March 29, 2022	12:00	63	81	53	42
Tuesday, March 29, 2022	13:00	64	83	59	43
Tuesday, March 29, 2022	14:00	63	81	59	45
Tuesday, March 29, 2022	15:00	66	81	67	50
Tuesday, March 29, 2022	16:00	65	77	65	47
Tuesday, March 29, 2022	17:00	59	79	55	46
Tuesday, March 29, 2022	18:00	59	78	52	41
Tuesday, March 29, 2022	19:00	57	76	48	42
Tuesday, March 29, 2022	20:00	58	78	46	43
Tuesday, March 29, 2022	21:00	54	74	45	42
Tuesday, March 29, 2022	22:00	57	80	49	43
Tuesday, March 29, 2022	23:00	54	78	46	41



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	62	79	55	44
Night Average	56	71	49	44
Day Low	54	74	45	41
Day High	66	84	67	50
Night Low	46	54	46	41
Night High	61	82	52	47
L _{dn}	64	Day %		88
CNEL	64	Night %		12



Appendix B4b: Continuous Noise Monitoring Results

Site: LT-4 Day 2

Project: Airport S. Industrial Park

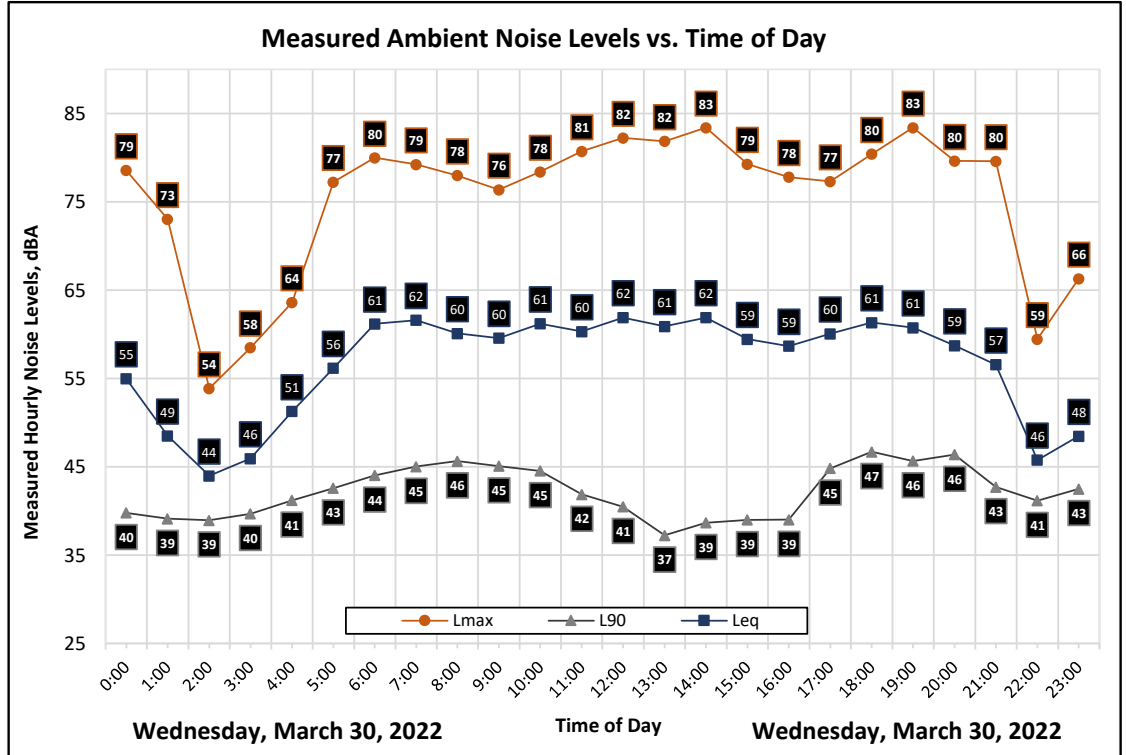
Meter: LDL 820-8

Location: South-West Project Boundary

Calibrator: CAL200

Coordinates: 38.6634105°, -121.5739845°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Wednesday, March 30, 2022	0:00	55	79	44	40
Wednesday, March 30, 2022	1:00	49	73	44	39
Wednesday, March 30, 2022	2:00	44	54	45	39
Wednesday, March 30, 2022	3:00	46	58	47	40
Wednesday, March 30, 2022	4:00	51	64	52	41
Wednesday, March 30, 2022	5:00	56	77	50	43
Wednesday, March 30, 2022	6:00	61	80	52	44
Wednesday, March 30, 2022	7:00	62	79	56	45
Wednesday, March 30, 2022	8:00	60	78	55	46
Wednesday, March 30, 2022	9:00	60	76	56	45
Wednesday, March 30, 2022	10:00	61	78	55	45
Wednesday, March 30, 2022	11:00	60	81	51	42
Wednesday, March 30, 2022	12:00	62	82	52	41
Wednesday, March 30, 2022	13:00	61	82	51	37
Wednesday, March 30, 2022	14:00	62	83	54	39
Wednesday, March 30, 2022	15:00	59	79	55	39
Wednesday, March 30, 2022	16:00	59	78	53	39
Wednesday, March 30, 2022	17:00	60	77	54	45
Wednesday, March 30, 2022	18:00	61	80	56	47
Wednesday, March 30, 2022	19:00	61	83	51	46
Wednesday, March 30, 2022	20:00	59	80	52	46
Wednesday, March 30, 2022	21:00	57	80	49	43
Wednesday, March 30, 2022	22:00	46	59	46	41
Wednesday, March 30, 2022	23:00	48	66	48	43



Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	60	80	53	43
Night Average	55	68	47	41
Day Low	57	76	49	37
Day High	62	83	56	47
Night Low	44	54	44	39
Night High	61	80	52	44
L _{dn}	62	Day %	87	
CNEL	63	Night %	13	



Appendix B4c: Continuous Noise Monitoring Results

Site: LT-4 Day 3

Project: Airport S. Industrial Park

Meter: LDL 820-8

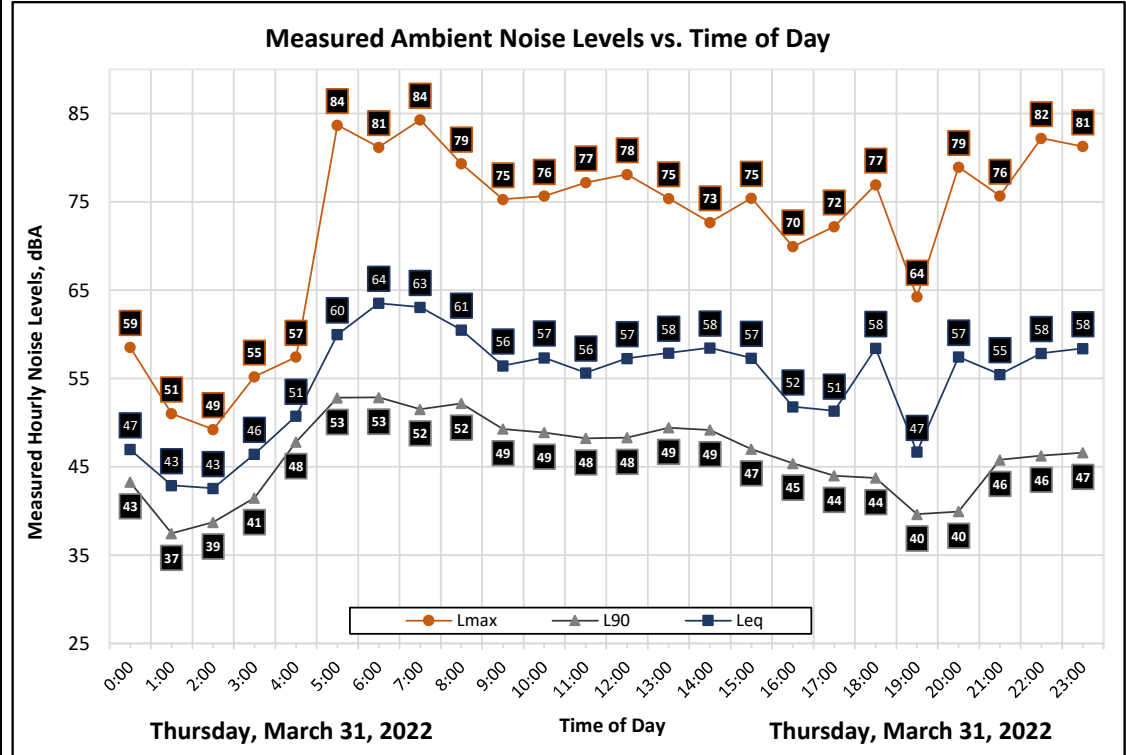
Location: South-West Project Boundary

Calibrator: CAL200

Coordinates: 38.6634105°, -121.5739845°

Date	Time	Measured Level, dBA			
		L _{eq}	L _{max}	L ₅₀	L ₉₀
Thursday, March 31, 2022	0:00	47	59	47	43
Thursday, March 31, 2022	1:00	43	51	44	37
Thursday, March 31, 2022	2:00	43	49	44	39
Thursday, March 31, 2022	3:00	46	55	48	41
Thursday, March 31, 2022	4:00	51	57	52	48
Thursday, March 31, 2022	5:00	60	84	59	53
Thursday, March 31, 2022	6:00	64	81	57	53
Thursday, March 31, 2022	7:00	63	84	57	52
Thursday, March 31, 2022	8:00	61	79	59	52
Thursday, March 31, 2022	9:00	56	75	54	49
Thursday, March 31, 2022	10:00	57	76	54	49
Thursday, March 31, 2022	11:00	56	77	52	48
Thursday, March 31, 2022	12:00	57	78	54	48
Thursday, March 31, 2022	13:00	58	75	58	49
Thursday, March 31, 2022	14:00	58	73	58	49
Thursday, March 31, 2022	15:00	57	75	53	47
Thursday, March 31, 2022	16:00	52	70	50	45
Thursday, March 31, 2022	17:00	51	72	49	44
Thursday, March 31, 2022	18:00	58	77	56	44
Thursday, March 31, 2022	19:00	47	64	45	40
Thursday, March 31, 2022	20:00	57	79	46	40
Thursday, March 31, 2022	21:00	55	76	50	46
Thursday, March 31, 2022	22:00	58	82	51	46
Thursday, March 31, 2022	23:00	58	81	51	47

Statistics	L _{eq}	L _{max}	L ₅₀	L ₉₀
Day Average	58	75	53	47
Night Average	57	67	50	45
Day Low	47	64	45	40
Day High	63	84	59	52
Night Low	43	49	44	37
Night High	64	84	59	53
L _{dn}	63	Day %	68	
CNEL	63	Night %	32	



Appendix C: Traffic Noise Calculation Inputs and Results



Appendix C-3

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 220109

Description: Airport S. Industrial Park - Baseline

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset			Level, dBA
												60 dBA	65 dBA	70 dBA	
1	Metro Air Parkway	I-5 to Pacific Gateway Drive	11,890	76	0	24	1.0%	1.0%	45	3000	0	202	94	43	42.4
2	Metro Air Parkway	Pacific Gateway Drive to Meister Way	14,210	76	0	24	1.0%	1.0%	45	3000	0	227	105	49	43.2
3	Metro Air Parkway	Meister Way to Elkhorn Boulevard	13,610	76	0	24	1.0%	1.0%	45	3000	0	221	102	48	43.0
4	West Elkhorn Boulevard	Lone Tree Road to Baidee Drive	6,550	84	0	16	1.0%	1.0%	45	140	0	114	53	25	58.7
5	Powerline Road	Garden Highway to Del Paso Road	730	88	0	12	1.0%	1.0%	45	1330	0	24	11	5	33.8
6	Powerline Road	Bayou Road to Del Paso Road	1,640	88	0	12	1.0%	1.0%	45	115	0	41	19	9	53.2
7	Powerline Road	Bayou Road to Pacific Gateway Drive	2,120	88	0	12	1.0%	1.0%	45	80	0	48	22	10	56.7
8	Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	1,740	88	0	12	1.0%	1.0%	45	6000	0	42	20	9	27.7
9	Del Paso Road	Powerline Road to Hovnanian Drive	1,700	84	0	16	1.0%	1.0%	45	225	0	46	22	10	49.7
10	El Centro Road	Del Paso Road to Hawkview Drive	5,800	84	0	16	1.0%	1.0%	45	750	0	105	49	23	47.2
11	El Centro Road	Hawkview Drive to Bayou way	3,110	84	0	16	1.0%	1.0%	45	55	-5	69	32	15	56.5
12	Garden Highway	Power Line Road to Radio Road	780	84	0	16	1.0%	1.0%	45	200	0	28	13	6	47.1
13	Garden Highway	Radio Road to San Juan Road	920	84	0	16	1.0%	1.0%	45	100	0	31	14	7	52.3
14	Garden Highway	San Juan Road to City Limit	630	84	0	16	1.0%	1.0%	45	100	0	24	11	5	50.7
15	Metro Air Parkway	I-5 to Airport South Industrial Drive	0	76	0		1.0%	1.0%	45	5000	-5				-
16	Airport South Industrial	Powerline Road to Metro Air Parkway	0	76	0		1.0%	1.0%	45	1500	-5				-
17	Airport South Industrial	METRO Air Parkway to "A" Drive	0	76	0		1.0%	1.0%	45	5000	0				-
18	"A" Drive	Airport South Industrial Drive to Bayou Way	0	76	0		1.0%	1.0%	45	300	-5				-
19	Bayou Way	A Drive to El Centro Road	2,660	76	0	24	1.0%	1.0%	45	90	0	74	34	16	58.8



Appendix C-4

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 220109

Description: Airport S. Industrial Park - Baseline Plus Project

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset			Level, dBA
												60 dBA	65 dBA	70 dBA	
1	Metro Air Parkway	I-5 to Pacific Gateway Drive	13,630	76	0	24	1.0%	5.3%	45	3000	0	305	142	66	45.1
2	Metro Air Parkway	Pacific Gateway Drive to Meister Way	15,930	76	0	24	1.0%	4.7%	45	3000	0	325	151	70	45.5
3	Metro Air Parkway	Meister Way to Elkhorn Boulevard	15,230	76	0	24	1.0%	4.6%	45	3000	0	315	146	68	45.3
4	West Elkhorn Boulev	Lone Tree Road to Baidee Drive	8,650	84	0	16	1.0%	1.0%	45	140	0	137	64	30	59.9
5	Powerline Road	Garden Highway to Del Paso Road	1,040	88	0	12	1.0%	1.0%	45	1330	0	30	14	6	35.3
6	Powerline Road	Bayou Road to Del Paso Road	2,120	88	0	12	1.0%	8.7%	45	115	0	80	37	17	57.6
7	Powerline Road	Bayou Road to Pacific Gateway Drive	2,140	88	0	12	1.0%	1.3%	45	80	0	50	23	11	57.0
8	Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	1,750	88	0	12	1.0%	1.2%	45	6000	0	43	20	9	27.9
9	Del Paso Road	Powerline Road to Hovnanian Drive	1,860	84	0	16	1.0%	3.9%	45	225	0	62	29	13	51.6
10	El Centro Road	Del Paso Road to Hawkview Drive	7,530	84	0	16	1.0%	1.0%	45	750	0	125	58	27	48.3
11	El Centro Road	Hawkview Drive to Bayou way	4,940	84	0	16	1.0%	1.0%	45	55	-5	94	44	20	58.5
12	Garden Highway	Power Line Road to Radio Road	1,080	84	0	16	1.0%	1.0%	45	200	0	34	16	7	48.5
13	Garden Highway	Radio Road to San Juan Road	1,190	84	0	16	1.0%	1.0%	45	100	0	37	17	8	53.4
14	Garden Highway	San Juan Road to City Limit	660	84	0	16	1.0%	1.0%	45	100	0	25	11	5	50.9
15	Metro Air Parkway	I-5 to Airport South Industrial Drive	10,760	76	0	24	1.0%	35.0%	45	5000	-5	616	286	133	41.4
16	Airport South Indust	Powerline Road to Metro Air Parkway	3,690	76	0	24	1.0%	35.0%	45	1500	-5	302	140	65	44.6
17	Airport South Indust	METRO Air Parkway to "A" Drive	6,440	76	0	24	1.0%	35.0%	45	5000	0	438	203	94	44.1
18	"A" Drive	Airport South Industrial Drive to Bayou Way	3,000	76	0	24	1.0%	35.0%	45	300	-5	263	122	57	54.1
19	Bayou Way	A Drive to El Centro Road	4,490	76	0	24	1.0%	1.0%	45	90	0	105	49	23	61.0

Appendix C-5

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 220109

Description: Airport S. Industrial Park - Cumulative

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset			Level, dBA
												60 dBA	65 dBA	70 dBA	
1	Metro Air Parkway	I-5 to Pacific Gateway Drive	28,440	76	0	24	1.0%	1.0%	45	3000	0	361	167	78	46.2
2	Metro Air Parkway	Pacific Gateway Drive to Meister Way	28,000	76	0	24	1.0%	1.0%	45	3000	0	357	166	77	46.1
3	Metro Air Parkway	Meister Way to Elkhorn Boulevard	23,480	76	0	24	1.0%	1.0%	45	3000	0	317	147	68	45.4
4	West Elkhorn Boulev	Lone Tree Road to Baidee Drive	17,550	84	0	16	1.0%	1.0%	45	140	0	220	102	47	62.9
5	Powerline Road	Garden Highway to Del Paso Road	3,010	88	0	12	1.0%	1.0%	45	1330	0	61	28	13	39.9
6	Powerline Road	Bayou Road to Del Paso Road	3,970	88	0	12	1.0%	1.0%	45	115	0	73	34	16	57.1
7	Powerline Road	Bayou Road to Pacific Gateway Drive	2,560	88	0	12	1.0%	1.0%	45	80	0	55	25	12	57.5
8	Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	2,180	88	0	12	1.0%	1.0%	45	6000	0	49	23	11	28.7
9	Del Paso Road	Powerline Road to Hovnanian Drive	1,830	84	0	16	1.0%	1.0%	45	225	0	49	23	10	50.0
10	El Centro Road	Del Paso Road to Hawkview Drive	20,750	84	0	16	1.0%	1.0%	45	750	0	246	114	53	52.7
11	El Centro Road	Hawkview Drive to Bayou way	13,040	84	0	16	1.0%	1.0%	45	55	-5	180	84	39	62.7
12	Garden Highway	Power Line Road to Radio Road	3,260	84	0	16	1.0%	1.0%	45	200	0	72	33	15	53.3
13	Garden Highway	Radio Road to San Juan Road	4,060	84	0	16	1.0%	1.0%	45	100	0	83	38	18	58.8
14	Garden Highway	San Juan Road to City Limit	2,000	84	0	16	1.0%	1.0%	45	100	0	52	24	11	55.7
15	Metro Air Parkway	I-5 to Airport South Industrial Drive	0	76	0		1.0%	1.0%	45	5000	-5				-
16	Airport South Indust	Powerline Road to Metro Air Parkway	0	76	0		1.0%	1.0%	45	1500	-5				-
17	Airport South Indust	METRO Air Parkway to "A" Drive	0	76	0		1.0%	1.0%	45	5000	0				-
18	"A" Drive	Airport South Industrial Drive to Bayou Way	0	76	0		1.0%	1.0%	45	300	-5				-
19	Bayou Way	A Drive to El Centro Road	6,890	76	0	24	1.0%	1.0%	45	90	0	140	65	30	62.9



Appendix C-6

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 220109

Description: Airport S. Industrial Park - Cumulative Plus Project

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset			Level, dBA
												60 dBA	65 dBA	70 dBA	
1	Metro Air Parkway	I-5 to Pacific Gateway Drive	29,760	76	0	24	1.0%	2.5%	45	3000	0	424	197	91	47.3
2	Metro Air Parkway	Pacific Gateway Drive to Meister Way	29,260	76	0	24	1.0%	2.5%	45	3000	0	418	194	90	47.2
3	Metro Air Parkway	Meister Way to Elkhorn Boulevard	23,920	76	0	24	1.0%	1.6%	45	3000	0	340	158	73	45.8
4	West Elkhorn Boulevard	Lone Tree Road to Baidee Drive	17,870	84	0	16	1.0%	1.0%	45	140	0	223	103	48	63.0
5	Powerline Road	Garden Highway to Del Paso Road	3,520	88	0	12	1.0%	1.0%	45	1330	0	68	31	15	40.6
6	Powerline Road	Bayou Road to Del Paso Road	4,650	88	0	12	1.0%	6.0%	45	115	0	117	54	25	60.1
7	Powerline Road	Bayou Road to Pacific Gateway Drive	2,670	88	0	12	1.0%	2.4%	45	80	0	64	30	14	58.5
8	Powerline Road	West Elkhorn Boulevard to Pacific Gateway Drive	2,280	88	0	12	1.0%	2.5%	45	6000	0	58	27	12	29.8
9	Del Paso Road	Powerline Road to Hovnanian Drive	1,940	84	0	16	1.0%	2.9%	45	225	0	60	28	13	51.4
10	El Centro Road	Del Paso Road to Hawkview Drive	18,810	84	0	16	1.0%	1.0%	45	750	0	230	107	50	52.3
11	El Centro Road	Hawkview Drive to Bayou way	10,700	84	0	16	1.0%	1.0%	45	55	-5	158	73	34	61.9
12	Garden Highway	Power Line Road to Radio Road	3,780	84	0	16	1.0%	1.0%	45	200	0	79	37	17	54.0
13	Garden Highway	Radio Road to San Juan Road	4,430	84	0	16	1.0%	1.0%	45	100	0	88	41	19	59.2
14	Garden Highway	San Juan Road to City Limit	2,130	84	0	16	1.0%	1.0%	45	100	0	54	25	12	56.0
15	Metro Air Parkway	I-5 to Airport South Industrial Drive	15,630	76	0	24	1.0%	35.0%	45	5000	-5	790	367	170	43.0
16	Airport South Industrial	Powerline Road to Metro Air Parkway	5,610	76	0	24	1.0%	35.0%	45	1500	-5	399	185	86	46.4
17	Airport South Industrial	METRO Air Parkway to "A" Drive	9,650	76	0	24	1.0%	35.0%	45	5000	0	573	266	123	45.9
18	"A" Drive	Airport South Industrial Drive to Bayou Way	5,000	76	0	24	1.0%	35.0%	45	300	-5	370	172	80	56.4
19	Bayou Way	A Drive to El Centro Road	8,600	76	0	24	1.0%	1.0%	45	90	0	162	75	35	63.8

APPENDIX K

AIRPORT SOUTH INDUSTRIAL
CITY OF SACRAMENTO, SACRAMENTO AREA SEWER DISTRICT

**Targeted
Municipal Services
Review**

SACRAMENTO
Local Agency Formation Commission

prepared by



WOOD RODGERS

January 2024

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Table of Contents

- 1. Introduction 1**
 - 1.1 Overview & Purpose of MSR 1
 - 1.2 LAFCO Requirements 1
 - 1.3 Services and Issues Addressed 2
- 2. Executive Summary..... 2**
 - 2.1 Population, Housing & Employment Growth 3
 - 2.2 Disadvantaged Communities..... 4
 - 2.3 Public Facilities & Services..... 4
 - 2.4 Financial Ability to Provide Services 8
 - 2.5 Shared Facilities..... 9
 - 2.6 Government Structure and Accountability..... 9
 - 2.7 Other Matters Related to Effective Service Delivery..... 9
 - 2.8 Conclusions 9
- 3. Project Description & Relationship to Sacramento General Plan..... 11**
 - 3.1 Airport South Industrial Project Site 11
 - 3.2 Sacramento General Plan 12
 - 3.3 Project Description..... 12
- 4. Population, Housing & Employment Growth 13**
 - 4.1 Historical Growth Patterns..... 13
 - 4.2 Growth Projections 16
 - 4.3 Residential Land Buildout Potential..... 17
 - 4.4 Determinations..... 17
- 5. Disadvantaged Communities 18**
 - 5.1 Overview..... 18
 - 5.2 Determinations..... 18
- 6. Public Facilities & Services 18**
 - 6.1 Water 18
 - 6.2 Wastewater..... 26
 - 6.3 Circulation and Roadways..... 29
 - 6.4 Animal Care..... 37
 - 6.5 Code Compliance 38
 - 6.6 Law Enforcement..... 39
 - 6.7 Fire Protection 41
 - 6.8 Solid Waste..... 44
 - 6.9 Storm Drainage and Flood Control 46
 - 6.10 Parks and Recreation..... 50
 - 6.11 Libraries..... 52

6.12 Electricity & Natural Gas..... 54

7. Financial Ability to Provide Services 56

7.1 Overview..... 56

7.2 City Funds and Revenue Sources..... 56

7.3 City Operating Budget 58

7.4 City Capital Improvement Programs..... 58

7.5 SacSewer Revenues, Budget & Improvements..... 59

7.6 Public Facilities Financing Plan..... 59

7.7 Determinations..... 60

8. Shared Facilities 60

8.1 Wastewater Collection and Treatment..... 60

8.2 Flood Control..... 61

8.3 Library Services 61

8.4 Public Safety Services 61

8.5 Determinations..... 62

9. Government Structure and Accountability 62

9.1 City Government Structure 62

9.2 City Community Service Needs & Staffing Levels 63

9.3 City & SacSewer Operational Efficiencies..... 64

9.4 SacSewer Governmental Structure 67

9.5 Process Transparency 68

9.6 Determinations..... 68

10. Conclusions..... 69

11. Works Cited 70

12. List of Appendices..... 71

I. Introduction

I.1 OVERVIEW & PURPOSE OF MSR

The Airport South Industrial (ASI) Targeted Municipal Services Review (MSR) has been prepared to assist the Sacramento Local Agency Formation Commission (LAFCO) in its evaluation of an application for a Sphere of Influence (SOI) Amendment for the City of Sacramento (City) and Sacramento Area Sewer District (SacSewer). It is important to note that prior to December 26, 2023 the district currently known as SacSewer was represented by two independent special districts; Sacramento Regional County Sanitation District (Regional San) and Sacramento Area Sewer District. The districts provided wastewater treatment and collection respectively. The LAFCO Commission authorized a reorganization of the districts; dissolving SacSewer and annexing the district into Regional San and subsequently naming the wastewater special district SacSewer.

The MSR complies with the Cortese-Knox-Hertzberg (CKH) Local Government Reorganization Act of 2000 (Act), per Government Code Section 56000, et seq., and evaluates existing and future service conditions for the geographic area subject to the requested SOI amendment.

A MSR provides the means to synthesize data regarding a local agency's operations and public services, ability to provide mandated services, and/or opportunities to provide more efficient services. California Government Code Section 56375 permits a LAFCO to take action on recommendations found in an MSR, which can range from initiating studies for changes of organization, updating a SOI, or initiating a change in organization.

A MSR also provides information to help a LAFCO make decisions on a proposed Sphere of Influence boundary change. This includes data necessary to determine if an agency has the capability to serve an expanded area and data related to an agency's financial condition, revenue sources, and projected expenses. A MSR also outlines what infrastructure may be needed to accommodate expansion of public services. Finally, a MSR can recommend changes in an agency or district's organization, such as consolidation, dissolution, merger, establishment of a subsidiary district, or the creation of a new agency that typically involves a consolidation of agencies.

The ASI MSR focuses on the service areas currently outside of Sacramento's incorporated boundary. The MSR will be used as an information base to update the Spheres of Influence of the City of Sacramento and SacSewer and to provide a foundation for the public, City of Sacramento, County of Sacramento, SacSewer and Sacramento LAFCO to consider changes to the existing, respective SOI boundaries of those agencies.

I.2 LAFCO REQUIREMENTS

A primary function of the Sacramento LAFCO is to implement the Cortese-Knox-Hertzberg (CKH) Act, which specifies a LAFCO's intent, authority, responsibility, process and other operating principals and requirements. This provides a LAFCO the authority to consider and adopt a Sphere of Influence (SOI) and/or reorganize local government agencies. Emphasis is placed on providing for the logical, efficient, and most appropriate formation of local municipalities, service areas, and special districts.

The CKH Act requires that a MSR be prepared prior to, or concurrent with, an update to a SOI and/or a reorganization. It consists of a collection of data relative to public services needed to serve the SOI. The MSR also includes an evaluation of each agency's organizational structure and operational practices, and it identifies potential areas for improvement, coordination, or changes to the SOI. While it is not the role of the MSR to make specific recommendations, it does provide an information resource that can be used by LAFCO to base its determinations on an action to amend an existing SOI.

The CKH Act requires that a MSR provide a LAFCO with the information needed to make determinations in seven different issue areas. As such, this report includes the following sections in order to provide LAFCO with the information needed to make determinations regarding the following elements:

- **Growth and Population:** Provides growth and population projections within the City's existing service boundaries, including an assessment of the City's ability to accommodate additional growth.

- **Disadvantaged Communities:** Identifies the location and characteristics of known disadvantaged unincorporated communities within, or contiguous to, the SOI. This is defined as a community with 12 or more registered voters with a median household income of 80 percent or less of the state’s median.
- **Public Facilities & Services:** Outlines the current and planned capacity of public facilities and adequacy of public services, including infrastructure needs and deficiencies.
- **Financial Ability to Provide Services:** Evaluates each agency’s fiscal position and rate structures to determine the viability and ability to meet demands for various public services.
- **Shared Facilities:** Assesses the status of, and opportunities for, shared facilities or services between the agencies, cities, and/or special districts, including opportunities to achieve cost savings through the reduction/elimination of redundancies.
- **Government Structure and Accountability:** Examines the current community service needs, government structure, operational efficiencies, and managerial practices of each agency, including an accountability assessment of the transparency of their respective processes.
- **Other Matters Related to Effective Service Delivery:** Assesses various policies and factors that could affect the City’s ability to efficiently provide public services.

1.3 SERVICES AND ISSUES ADDRESSED

To provide the Sacramento LAFCO with the information needed to make a determination regarding each of the seven elements identified above, this MSR addresses the following public service/issue areas:

- Growth and Population Projections
- Disadvantaged Communities
- Public Facilities and Services, including:
 - Water
 - Wastewater
 - Circulation and Roadways
 - Animal Care
 - Code Enforcement
 - Law Enforcement
 - Fire Protection
 - Solid Waste
 - Storm Drainage and Flood Control
 - Parks and Recreation
 - Libraries
 - Electricity & Natural Gas
- Financial Ability to Provide Services
- Shared Facilities Opportunities
- Government Structure and Accountability
- Other Matters Related to Effective Service Delivery

2. Executive Summary

The purpose of this Targeted Municipal Services Review (MSR) is to provide a comprehensive summary and assessment of the ability of the City of Sacramento and SacSewer to provide public services within a requested Sphere of Influence (SOI) amendment area to accommodate development of the Airport South Industrial (ASI) project. The proposed development site and SOI expansion area are currently located in Sacramento County, California and

consist of approximately 472.4 acres immediately northwest of the City of Sacramento's corporate boundary. A targeted MSR, as opposed to a broader MSR for the whole City, has been prepared because the Sphere of Influence Amendment being requested is project specific and limited to the project area. It was determined in consultation with LAFCo staff that a targeted project specific MSR was appropriate for the ASI project. The City's 2040 General Plan Update (2040 GPU) will include an implementation measure that a citywide MSR will be prepared for the City of Sacramento.

As of 2019, the area within Sacramento's City limits included approximately 101 square miles (64,425 acres) and the SOI outside of the City limits consisted of approximately 22 square miles (14,018 acres). The City limits include all incorporated land within the legal jurisdiction of the City of Sacramento.

Key features adjacent to the project site include I-5 to the north, the Reclamation District 1000 (RD 1000) West Drainage Canal to the south, Powerline Road to the west, and the North Natomas Westlake Subdivision to the east, which include a City-owned 200' buffer. The project site is located south of Metro Air Park and the new Metro Air Parkway/I-5 interchange, southwest of the City of Sacramento's Northlake development (formerly Greenbriar), and west of the existing Westlake residential community, which is adjacent to the City of Sacramento's corporate boundary. The Sacramento International Airport (SMF) and the County's Metro Air Park Industrial Park (MAP) lie directly north and west of Interstate 5.

The proposed project would allow development of both industrial and commercial land uses. Industrial uses would consist of a mixture of warehouse, distribution facilities, and similar uses. Commercial uses would allow of a mixture of restaurant, hotel, fueling station, car wash, and similar uses. Public facilities, including on-site roadways, utilities, a sewer pump station, and stormwater detention basins/pumping facilities, would also be constructed. At buildout, the project would accommodate approximately 6,609,300 sq. ft. of industrial uses and 98,200 sq. ft. of commercial uses. A preliminary site plan for the ASI project is included as Appendix A.

The proposed SOI amendment area is approximately 472.4 acres in size. This is inclusive of the State of California (Caltrans) lands within the I-5 corridor, and also includes the south approximate one-half of the new Metro Air Park interchange. The project site's west boundary extends to the approximate centerline of Power Line Road.

This section provides summary data and an assessment of seven elements/public services as required by the CKH Act in order to position the Sacramento LAFCO with the ability to make a formal determination of each.

2.1 POPULATION, HOUSING & EMPLOYMENT GROWTH

The greater Sacramento area has experienced significant growth and change since the mid-20th century. In the 1950's, Sacramento's economy was supported primarily by agriculture, food processing, State government, and military base operations. In more recent decades, the diversification of industries and the introduction of more technical jobs spurred steady population growth in Sacramento and throughout the region. For much of the past 30 years, Sacramento's growth rate has been similar to that of the State of California, with housing stock and employment opportunities increasing to meet the demand. The recession between 2008-2012 caused a decrease in population growth rate from 1.5% annually to 0.6% annually. However, the City has since recovered and has a current population growth rate of approximately 1.1%, which is anticipated to remain steady through 2040. Areas of the City that have experienced the most growth since the 1990's include North Natomas, South Natomas, and the South Area. Much of the housing constructed in these areas consists of suburban, single-family homes, with a lesser stock of multi-family units. Future development projections anticipate that the City's housing stock will consist of approximately 50% multi-family units by the year 2035 and that the City's total housing stock will reach 266,781 units by the year 2040. Employment is also anticipated to increase and further diversify in the region, with an approximately 18% increase in the City's employment base between the years 2016 and 2040, resulting in approximately 364,819 jobs. A detailed assessment regarding the City's growth and population is outlined in Section 4 of this MSR.

2.2 DISADVANTAGED COMMUNITIES

Approved on October 7, 2011, Senate Bill 244 (SB 244) established legislation to address the need for infrastructure improvements and provision of water, wastewater, and fire protection services in defined Disadvantaged Unincorporated Communities (DUCs). DUCs are defined as communities of ten dwelling units or more in an unincorporated area bordering a City or within a City's sphere of influence where the median household income is 80 percent or less of the State's established median household income. The proposed Airport South Industrial project/Sphere of Influence (SOI) expansion area is not developed and is located in unincorporated Sacramento County, however it lies adjacent to a portion of the Sacramento's City limit's western edge. The area surrounding the SOI expansion area consists of a combination of undeveloped properties, vacant land areas, and developed residential neighborhoods. There are no properties that meet the definition of a DUC within, or adjacent to, the proposed SOI expansion area. A detailed assessment regarding disadvantaged communities is outlined in Section 5 of this MSR.

2.3 PUBLIC FACILITIES & SERVICES

The City of Sacramento provides comprehensive municipal services including water, wastewater, solid waste, storm drainage, law enforcement, fire protection, transportation and street maintenance, parks and recreation, library, and general governmental services. The City also has a Capital Improvement Program for the advancement of its public facilities and services. Detailed information regarding the City's public facilities and services is outlined in Section 6 of this MSR, which is summarized in this sub-section.

2.3.A Water

The City of Sacramento is both a water retailer and a water wholesaler for its 101-square-mile service area and their service includes the operation and maintenance of an infrastructure system that produces, treats, stores, and delivers potable water to its customers. The City's water portfolio is generated from both surface water and groundwater. Surface water is sourced via diversions from both the Sacramento and American Rivers. Groundwater is produced from groundwater wells that are located throughout the City. The existing water infrastructure network consists of two surface water treatment facilities, two pressure zones, and a supporting system of groundwater wells, pumping facilities, storage tanks, and distribution/transmission pipelines.

In proximity to the ASI project site, the City operates and maintains a 30" water transmission main that is located in South Bayou Way. This facility terminates near the east edge of the SOI expansion area, which provides a point of connection to serve development of the ASI project. It is from this point of connection that new water infrastructure would be constructed to extend existing off-site infrastructure to the project site to serve development of the ASI project. The design and location of existing water infrastructure, including its water supply, treatment facilities, and delivery system, is sufficient to provide service to the ASI project. Additional information about the City's water utilities is outlined in Section 6.1 of this MSR.

2.3.B Wastewater

Wastewater collection and treatment services for a majority of the City of Sacramento is provided by Sacramento Area Sewer District (SacSewer), formerly known by the two special districts as Sacramento Regional County Sanitation District and Sacramento Area Sewer District. Wastewater is collected by SacSewer's trunk facilities, and it is conveyed via interceptors to the Sacramento Regional Wastewater Treatment Plant (SRWTP) for treatment and disposal. The SRWTP is a regional wastewater treatment plant that serves the City of Sacramento and several other cities and districts in the region.

The ASI project site is not currently located within SacSewer's Master Plans as a future area to be served. In order for services to be extended to the site, it must be annexed into the SOI of SacSewer and the City of Sacramento, requiring an amendment to each districts' SOI. The district must amend their Master Plans prior to or concurrent with the annexation process as part of the analysis to support the SOI expansion. Development of the ASI project includes the construction of on-site sewer pipelines, a pump station, and off-site force mains, which have been preliminarily designed to accommodate full buildout. The on-site sewer system is designed to collect wastewater from each parcel and convey it via gravity to a central pump station. From the pump station, wastewater is pumped via force main to an existing SacSewer trunk and/or

an existing interceptor located to the east of the project site. Flows will ultimately be conveyed to the SRWTP for treatment and disposal. The SRWTP maintains sufficient capacity to treat wastewater flows generated from buildout of the ASI project. Funding to support the expansion of service will be collected from impact fees as well as new service fees generated from development in the project area. Additional information about the City's wastewater systems is outlined in Section 6.2 of this MSR.

2.3.C Circulation and Roadways

The City's roadway network includes Federal interstates, State highways, and City streets (arterials, collectors, and local streets). While the roadway system has historically designed to primarily accommodate vehicular travel, the City supports all travel modes including public transit, bicycling, and walking. The Sacramento General Plan establishes roadway capacity and level of service standards for roadways in the City, which provides for a base level of service standard of LOS D. However, in specifically identified areas (such as the downtown core) where streets have a unique condition or other warrant, the base level of service standard is LOS E or LOS F during peak travel hours. Sacramento also implements Transportation Demand Management programs that are intended to reduce traffic congestion, optimize transportation system usage, and improve air quality. These consist of both a Transportation Systems Management (TSM) program that requires smaller employers to achieve a 35 percent trip reduction and a Transportation Management Plan (TMP) that requires larger employers to provide enhanced facilities that incentivize usage of alternative transportation modes.

A wide range of transit services are provided in Sacramento, which includes public bus service, light rail transit, commercial bus service, and interregional and interstate passenger train service. The Sacramento Regional Transit District (RT) provides local bus and light rail service within the City and outlying areas of the Sacramento region. RT recently adopted an updated plan for the expansion of its transportation network, which includes adding new stations, replacing its aging light rail vehicle fleet, double-tracking congested segments, and extending rail lines to the airport. Additionally, several park-and-ride facilities are located throughout the City to facilitate ridesharing, carpooling, and access to regional transit.

The City is continually implementing its adopted Bicycle Master Plan, which identifies existing and planned bicycle trails and routes. It incorporates design features for bikeway facilities, such as lane widths, signs and markings, and promotes bicycle safety and education programs to ensure adequate bikeways are constructed with new development. Similarly, the City is continually implementing its plans and programs to enhance existing pedestrian facilities. This includes the adopted Neighborhood Traffic Management Program, Pedestrian Master Plan, and Traffic Calming Guidelines, which collectively provide guidance to improve neighborhood livability by slowing vehicles to create a desirable pedestrian environment. Additionally, the City's adopted the Vision Zero Sacramento Action Plan is being implemented with the goal of eliminating traffic fatalities and serious injuries on City streets by the year 2027.

Development of the ASI project includes roadways, bikeways, and pedestrian facilities. Roadway construction will create access to all commercial and industrial parcels, with connections to existing roadways including Power Line Road, Bayou Way, and Metro Air Parkway, which provides access to I-5. Roadways have been designed consistent with Sacramento's adopted design standards and include the appropriate travel lanes to support traffic associated with project buildout. Additionally, on-street bike lanes and street-separated sidewalks for pedestrians are included in the ASI's roadway design and will be constructed in accordance with the City's requirements. Additional information about the City's roadway network and other transportation modes is outlined in Section 6.3 of this MSR.

2.3.D Animal Care

Animal Care services within the City of Sacramento are primarily operated from the Front Street Animal Shelter, located at 2172 Front Street. Unincorporated areas are served by the Sacramento County Animal Care and Regulation. Services provided include vaccination, spay and neuter, veterinary care, euthanasia, pet licensing, adoption, and boarding. The City funds its animal care services from its General Fund, which is supplemented by donations and fundraising efforts. Expansion of funding to support animal care facilities or services is decided by voters in local elections and in response to an increase in population.

Development of the ASI project would introduce a mix of industrial and commercial uses that will not impact capacity or demand for animal care services in the City of Sacramento. No improvements or extension to

animal care services in the City will be necessary as a result of the ASI project. Additional information about the City's animal care services is outlined in Section 6.4 of this MSR.

2.3.E Code Compliance

The Sacramento Code Compliance Division of the Community Development Department provides code enforcement services throughout the City. Its primary purpose is to preserve and enhance public health, safety, and welfare by addressing issues of blight and enforcing City and State codes. Code enforcement services are paid for by the City's General Fund. Development fees and property taxes generated by the ASI project will contribute to the General Fund, a portion of which is allocated to the Community Development department and the Code Compliance Division.

Development of the ASI project site with new commercial and industrial uses will be required by the City to meet all current Building Code and safety standards. As designed, the project will be structurally sound, clean, and free of hazards created by property neglect or blight. Upon buildout, business operations conducted at the project site will not require permits or licenses managed by the Code Compliance Division and the site is not anticipated to require Code Compliance services. Development of the ASI project is not anticipated to significantly impact the Code Compliance Division's service levels or require expansion of services or facilities, as the division predominantly carries out tasks related to degradation and blight of existing structures. Additional information about the City's code compliance services is outlined in Section 6.5 of this MSR.

2.3.F Law Enforcement

The City of Sacramento operates its law enforcement services from Police Headquarters at 5770 Freeport Boulevard and several substations throughout the City, each responsible for specific districts. Upon expansion of the SOI, the Airport South Industrial site would be served by the North Area Substation. Implementation of the ASI project will be subject to all applicable City regulatory requirements. This includes compliance with the laws set forth in Chapter 2.20 of the Sacramento City Code and with applicable Police Services policies contained in the City's General Plan.

Development of the ASI project site will be subject to Police Department review in order to implement appropriate Crime Prevention through Environmental Design principles. Development projects in the ASI area will be required to pay applicable development impact fees for the maintenance, improvement, and expansion of police facilities. The proposed development does not include residential uses or impact the City's resident population, therefore, the impact to calls for police services is anticipated to be minimal. Additional information about the City's law enforcement services is outlined in Section 6.6 of this MSR.

2.3.G Fire Protection

The Sacramento Fire Department (SFD) provides fire protection services to the entire City and some small unincorporated areas within the County that include Pacific-Fruitridge and Natomas Fire Protection Districts. The Fire Department headquarters are located at the Public Safety Center at 5770 Freemont Boulevard. There are 24 fire stations throughout the City, each operating within the specific response area immediately surrounding its station.

The SFD currently provides fire protection and emergency response services to the proposed ASI SOI expansion area. The ASI project would be primarily served by Fire Station #43, which is the nearest station to the project site. It is located approximately 2.5 miles to the southeast of the ASI project site at 4201 El Centro Road in unincorporated Sacramento County. Development projects in the ASI project area will be required to comply with State and local fire regulations as well as pay any City-adopted impact fees related to fire protection services, as outlined in the Sacramento City Code. Additional information about the City's fire protection services is outlined in Section 6.7 of this MSR.

2.3.H Solid Waste

The City of Sacramento's Recycling and Solid Waste Division collects residential solid waste generated throughout the City, including household waste, recycling, and organic wastes. Solid waste collected by the City is transported to the Sacramento County North Area Recovery Station (NARS), Sacramento Recycling and Transfer Station (SRTS), and various other facilities for processing, with most garbage being further

transported to the Sacramento County Kiefer Landfill for disposal. Private franchised commercial haulers service commercial and industrial properties in the City through an open market system. Commercial haulers send solid waste to a variety of facilities for processing, recycling, and disposal, including Sacramento County's Kiefer Landfill. It is estimated that the Kiefer Landfill should have capacity to serve the greater Sacramento area through the year 2052, and potentially through 2085.

Solid waste generated by construction and operation of the ASI project site will be collected by private commercial franchised haulers or self-hauled by subcontractors to a construction and demolition recycling facility. The franchised commercial waste hauling services in the City are adequate to support solid waste generated by the industrial and commercial operations of the proposed ASI project. Additional information about the solid waste services in the City is outlined in Section 6.8 of this MSR.

2.3.I Storm Drainage and Flood Control

The ASI project/SOI expansion area is located in the Natomas Basin, a 55,000-acre, 15-mile-long basin that has historically experienced flooding from the Sacramento and American Rivers. The Natomas Basin has been outfitted with levees, internal drainage channels, and pump stations to make the land useable for agricultural purposes and development. The Natomas Basin is under the jurisdiction of the United States Army Corps of Engineers (USACE). As a result of the USACE's 2008 action to decertify the basin's levees, the Sacramento Area Flood Control Agency (SAFCA) and the USACE have been, and currently are, working together to design, fund, and construct levee improvements that will provide the Natomas Basin with 200-year flood protection.

The ASI project site is served by Reclamation District 1000 (RD 1000), which provides drainage, flood control, and levee maintenance. RD 1000 maintains regional drainage facilities both adjacent to, and within, the ASI project site, which convey off-site stormwater runoff to pumping facilities where it is discharged into the Sacramento River.

Stormwater drainage services for the ASI project will be provided by the City of Sacramento and RD 1000 in a similar manner as is currently performed in North Natomas and other areas of the Natomas Basin. The ASI project's on-site drainage systems have been designed to mitigate post-project runoff levels to be equal to, or less than, pre-project levels, consistent with RD 1000's requirements. This includes a system of detention/retention basins, pumping facilities, and weirs that connect the on-site system with RD 1000's system. Additional information about the City's storm drainage and flood control systems is outlined in Section 6.9 of this MSR.

2.3.J Parks and Recreation

The City of Sacramento maintains a network of parks, open spaces, and recreation areas throughout the City, which includes over 234 parks/facilities on over 4,360 acres of parks, parkways, and open space areas Citywide. A variety of recreation programs are available to residents, operated at park sites and community centers throughout the City. The City of Sacramento is currently updating its Parks and Recreation Master Plan as part of the 2040 General Plan Update. Utilizing both professional expertise and community feedback, the updated Master Plan will evaluate current park conditions and potential areas for improvements to park facilities and recreation programs.

Demand for parks and recreation in the City is primarily generated by an increase in population resulting from the development of new housing units. The commercial and industrial uses planned for the ASI project are not anticipated to impact existing parks in the area and will not add to parks and recreation service level needs. Additional information about the City's parks and recreation facilities is outlined in Section 6.10 of this MSR.

2.3.K Libraries

The Sacramento Public Library (SPL) system includes 28 locations serving the City of Sacramento, Citrus Heights, Elk Grove, Galt, Isleton, Rancho Cordova, and the County of Sacramento. The public library system provides book lending, education programs, and welcoming community spaces. Because development of the ASI project site with commercial and industrial uses will not increase the City's residential population, it is not expected that the City's existing library services will be negatively impacted. Therefore, no expansion

of current library resources is warranted by the proposed project. Additional information about the City's library facilities is outlined in Section 6.11 of this MSR.

2.3.L Electricity & Natural Gas

The Sacramento Municipal Utility District (SMUD) provides electrical service to the City of Sacramento and most of Sacramento County, with electricity sourced from a combination of hydroelectric, thermal (natural gas), wind, and solar resources. Pacific Gas & Electric (PG&E) supplies natural gas to the Sacramento area. The City of Sacramento implements local regulations and programs that are designed to conserve energy, incorporate sustainable, green building practices into new construction, and to achieve zero net energy consumption in new construction by the year 2030.

Upon buildout of the ASI project, SMUD-supplied electricity infrastructure and PG&E natural gas service lines will be extended to the project site in order to provide electricity and natural gas services. Local regulations for energy efficiency in new construction will be applied as individual buildings on the project site are constructed. Additional information about the City's electric and natural gas utilities is outlined in Section 6.12 of this MSR.

2.4 FINANCIAL ABILITY TO PROVIDE SERVICES

City revenues are generated from a variety of sources and continually distributed to specific funds in order to provide municipal services. Revenue sources include governmental funds like the General Fund and the Measure U Fund (generated by a City sales tax), Special Revenue Funds, Debt Service Funds, Capital Projects Funds, Enterprise Funds, Internal Service Funds, and Fiduciary Funds. The City's Operating and Capital Improvement Program (CIP) Budgets allocate funding for city staffing positions as well as major projects related to the delivery of municipal services and infrastructure/facility needs.

SacSewer generates the majority of their operating revenue from monthly service charges, with the remainder collected from sewer impact fees and other fees. SacSewer operates with a balanced budget and is able to support new service areas through the collection of monthly fees from new service customers as well as impact fees collected during development.

A Public Facilities Finance Plan (PFFP) has been prepared for the proposed ASI project. The PFFP identifies costs for backbone infrastructure improvements, public facilities, and other developer obligations. It also identifies funding sources and strategies to extend utilities and associated municipal services to the proposed SOI expansion area. As shown in the PFFP, the various funding sources derived from development of the ASI project are sufficient to cover costs of backbone infrastructure, public facilities, and other developer obligations. A detailed assessment regarding the financial ability of the City, and SacSewer to provide municipal services is outlined in Section 7 of this MSR.

2.5 SHARED FACILITIES

The City aims to optimize efficiency and funding allocations for municipal services by identifying opportunities for shared facilities. As the City expands its Sphere of Influence and annexes additional land areas into its City limits, it becomes responsible for providing municipal services and public facilities to these areas that were previously served by the County and/or other special districts. The combination of department and agency efforts and resources where possible minimizes costs by reducing redundancies. Shared facilities throughout the City include flood control, library services, and public safety services for police and fire. The City cooperatively partners with other agencies and special districts to provide a comprehensive level of municipal services, which includes several types of shared resources and facilities. Formerly, Regional San and SacSewer shared facilities and infrastructure to operate a local to regional cooperative system for wastewater collection and treatment which has now been consolidated into one district known as SacSewer. A detailed assessment regarding their facilities is outlined in Section 8 of this MSR.

2.6 GOVERNMENT STRUCTURE AND ACCOUNTABILITY

The City of Sacramento's governmental structure has a long-standing history of public/citizen interaction. The Mayor, City Council, City Manager, appointed Commissions and Staff put forth a strong effort to ensure that the citizens of Sacramento, other local, State and Federal governmental agencies, special interest groups and labor unions are fully involved in the City's decision-making process. Staffing levels are reviewed annually through the budget process to ensure that staffing meets anticipated service needs and the City Council priorities. This process allows for staffing adjustments to be made in order to provide for the expansion of municipal services to the SOI expansion area. Additionally, through the City's annual budget process, each department is required to review its current operations and evaluate opportunities to implement changes that enhance their operational efficiencies.

The City of Sacramento provides municipal services that will meet the future needs for the ASI project. Where the City is not the lead provider of a service, other agencies/districts, such as SacSewer, will provide services consistent with current practices within the City.

With development of the proposed ASI project, municipal services will be extended to the project site in order to meet its service requirements. As development proceeds, the City, and SacSewer have the ability to make any necessary adjustments to staffing or facilities, which would be addressed during their respective budget processes. These service providers' existing governmental processes designed to provide levels of review and public input will be maintained in the process of expanding services to the proposed SOI expansion area. This is already weaved into the operations of SacSewer through their transparent government structure which facilitates public involvement. A detailed assessment regarding the City's government structure is outlined in Section 9 of this MSR.

2.7 OTHER MATTERS RELATED TO EFFECTIVE SERVICE DELIVERY

The application to expand SacSewer, and the City of Sacramento's Spheres of Influence (SOI) to include the ASI project site has been submitted to the Sacramento Local Agency Formation Commission (LAFCO) for consideration. As such, LAFCO policies must be applied to the proposed project to ensure that the request is reviewed with public transparency and that the availability of municipal services and potential environmental impacts are evaluated. Prior to approval of the City's request to expand its existing SOI, LAFCO must find that the proposed project is consistent with Sacramento LAFCO's policies regarding Sphere of Influence amendments. A detailed assessment regarding other matters related to effective service delivery is outlined in Section 10 of this MSR.

2.8 CONCLUSIONS

This MSR has been prepared to assist Sacramento LAFCO in its evaluation of a SOI Amendment application for the proposed ASI project. It complies with the Cortese-Knox-Hertzberg Act and it evaluates existing and future service conditions for the following public service/issue areas: Population, Housing, and Employment Growth Projections; Disadvantaged Communities; Public Facilities and Services; Financial Ability to Provide

Services; Shared Facilities Opportunities; Government Structure and Accountability; and Other Matters Related to Effective Service Delivery. Based on the information contained in this MSR, the following key findings can be made:

- The City of Sacramento is expected to continue growing, by adding jobs, housing, and a residential population.
- No defined disadvantaged communities are located on, or adjacent to, the project site.
- The City of Sacramento, in tandem with other agencies and districts such as SacSewer, have the ability to expand their public facilities and municipal services to the proposed SOI expansion area in order to serve development of the proposed ASI project.
- The City of Sacramento, and SacSewer operate with a balanced budget, and as outlined in the ASI Public Facilities Financing Plan, have the financial ability to provide municipal services to the proposed ASI project.
- The City of Sacramento, and SacSewer actively pursue opportunities to enhance its operational efficiencies, and as such, cooperatively partners with other agencies and special districts to provide a comprehensive level of municipal services, which includes several types of shared resources and facilities.
- The City of Sacramento, and SacSewer operate with a transparent governmental structure that emphasizes public involvement in their decision-making processes.
- The proposed project is consistent with the policies that LAFCO is required to apply to an application for a SOI Amendment.

3. Project Description & Relationship to Sacramento General Plan

3.1 AIRPORT SOUTH INDUSTRIAL PROJECT SITE

The Airport South Industrial (ASI) project site and Sphere of Influence (SOI) amendment area consists of approximately 472.4 acres in an unincorporated area of the County of Sacramento, immediately northwest of the City of Sacramento’s corporate boundary. The site is located south of Interstate 5 (I-5), southeast of the intersection of Powerline Road and I-5 in Sacramento County, California.

Key features adjacent to the project site include I-5 to the north, the Reclamation District 1000 (RD 1000) West Drainage Canal to the south, Powerline Road to the west, and a 200’ buffer and the North Natomas Westlake Subdivision to the east. The project site is located south of Metro Air Park (MAP) and the new Metro Air Parkway/I-5 interchange, southwest of the City of Sacramento’s Greenbriar development (now known as Northlake), and west of the existing Westlake subdivision adjacent to the current City of Sacramento boundary. The proposed SOI expansion area for the ASI project is identified on Figure 1.

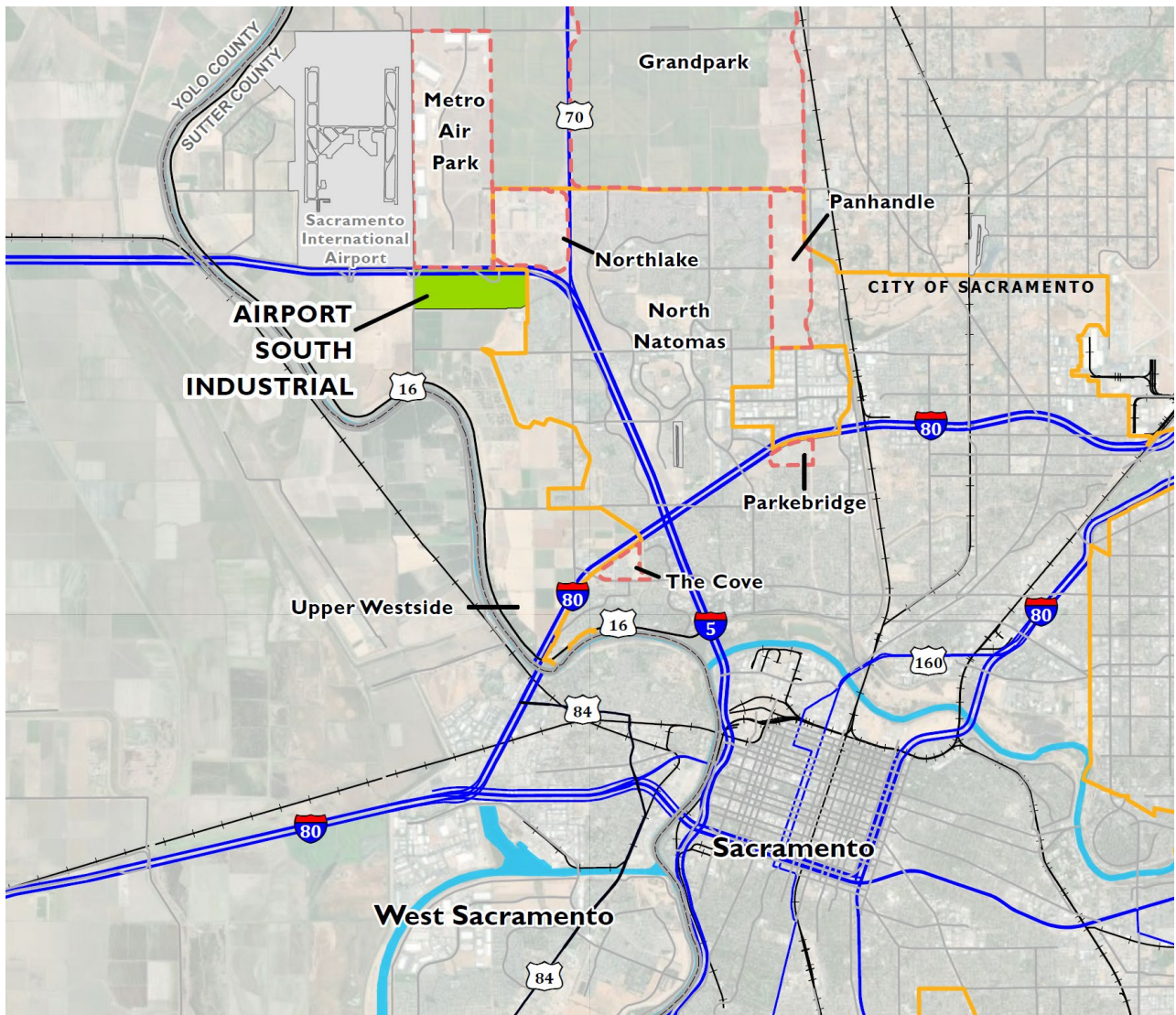


Figure 1: Airport South Industrial Study Area

3.2 SACRAMENTO GENERAL PLAN

The City of Sacramento 2035 General Plan was adopted in March 2015 in compliance with the requirements of California Government Code Section 65300 et seq. At a high level, it defines the City's roadmap to achieving Sacramento's vision to be the most livable city in America. The General Plan is a legal document and much of its content is established by statutory requirements relating to background data, analysis, maps, and exhibits. The 2015 General Plan Background Report provides much of the baseline data and existing conditions information that was used to form the goals, policies, and implementation programs of the 2035 General Plan. The City is currently in the process of updating its General Plan (GPU) with a new horizon year of 2040. As part of this effort, a new Technical Background Report (TBR) for the City was prepared to provide data and information to inform the 2040 General Plan's policy framework. While the GPU has not yet been adopted and therefore cannot be used to provide policy guidance for this MSR, the updated TBR was completed in November 2020 and provided much data and information needed for this MSR. The TBR provides a "snapshot" of Sacramento's current trends and conditions and provides a detailed description of a wide range of topics within the City, such as demographics, economic conditions, land use, public facilities, and environmental resources. Together, these resources provide much of the data used in the preparation of this MSR.

A "Targeted Municipal Services Review" (MSR) has been prepared for the Airport South Industrial Project (ASI). The document is considered a targeted MSR because it is project specific. The project site is approximately 472.4 acres in size and is bounded by Interstate 5, Powerline Road, RD-1000 canals, and City owned property, nearby open space, existing residential and Sacramento International Airport owned lands. The Sphere of Influence Amendment being proposed for the ASI Project is limited to the 475 acres that makes up the project site. As such, it was determined in consultation with LAFCo staff that a targeted project specific MSR was the appropriate document to prepare for the ASI Project. Additionally, the City's 2040 General Plan Update (2040 GPU) will include an implementation measure that a citywide MSR will be prepared for the City of Sacramento.

3.3 PROJECT DESCRIPTION

The Airport South Industrial project is a non-residential development proposal located south of Interstate 5, east of Powerline Road, and immediately west of the City of Sacramento's corporate boundary. The project site is located in unincorporated Sacramento County and is proposed to be annexed into the City of Sacramento and into the service boundaries of SacSewer. Primary access to the site is available from Metro Air Parkway at the I-5 interchange, with secondary access points via South Bayou Way and Power Line Road. The proposed project is approximately 472.4 acres in size and includes an amendment to the City's existing Sphere of Influence (SOI) and SacSewer service areas. The project site is inclusive of the State of California (Caltrans) lands measured roughly to the center of I-5, and also includes the south approximate one-half of the new Metro Air Park interchange. The project site's west boundary extends to the approximate centerline of Power Line Road.

The proposed project would allow development of an industrial park and highway-commercial land uses. Industrial uses would consist of a mixture of warehouse, distribution facilities, and similar uses. Commercial uses would allow of a mixture of restaurant, hotel, fueling station, car wash, and similar uses. Public facilities, including on-site roadways, utilities, a sewer pump station, and stormwater detention basins/pumping facilities, are also incorporated into the proposed project. At buildout, developed land uses would provide up to approximately 6,609,300 sq. ft. of industrial uses and 98,200 sq. ft. of commercial uses.

A preliminary site plan for the proposed project is included as Appendix A.

4. Population, Housing & Employment Growth

4.1 HISTORICAL GROWTH PATTERNS

The Sacramento region is an economic node in Northern California and has undergone significant changes since the 1950's when the local economy was based on agriculture and food processing, State government, and military base activity. Through the 1970s, the region retained a rural character and was considered a low-cost alternative to the Bay Area. The 1980's marked a major turning point for the region, with diversification through growth in electronics, scientific and health products, tourism, and software, which resulted in significant growth in the region's population, services-sector, and construction jobs. During the 1990's and early 2000's, the region's pace of growth surpassed that of the state, the Bay Area and the San Joaquin Valley. (*City of Sacramento, General Plan Background Report (March 2015), pp. 2-179*)

4.1.A Population Characteristics

Sacramento's population has grown steadily since 1990, largely supported by development of North Natomas, South Natomas, the South Area, and other large tracts of undeveloped land. Development in these greenfield areas primarily consists of conventional suburban family housing, in line with the population trends during the 1990's of increasing household size. As of April 1, 2010, Sacramento's population was 466,488 and the City's growth rate since 1990 has more or less equaled the overall growth in the state of California, with a slightly slower rate of growth from 1990-2000 and slightly faster rate of growth from 2000-2010. Additionally, the growth rate was slightly higher prior to the recession commencing in 2008 (1.5 percent), and in subsequent years (2008-2012) decreased significantly (0.6 percent). (*City of Sacramento, General Plan Housing Element, December 17, 2013, pp. H 3-3*) Since 2010, the City's rate of population growth was generally consistent with statewide growth, but its rate was slightly lower than surrounding areas in the region. Population growth since 2010 was primarily focused in new development areas including North Natomas and the North Sacramento Community Plan Area, and the central City. (*City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. i*) Between 2010 and 2018, the City's residential population grew by approximately 34,180 people, which represents a 7.3% increase. Compared to statewide population growth, Sacramento continues to surpass the statewide growth rate significantly. (*City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, pp. 3-4*) As of January 1, 2021, the City's population was estimated to be 515,673. (*City of Sacramento, 2022/2033 Proposed Budget, April 2022, p. 18; City of Sacramento, FY2022/23 Approved Budget*) Population changes for the City of Sacramento as compared to the County and the State for the time period between 1990 and 2019 are summarized in the table below.

Table 1: Historical Population Growth

Area	City of Sacramento	County of Sacramento	State of California
Total Population			
1990	369,365	1,041,218	29,760,021
2000	407,018	1,223,499	33,871,648
2010	466,488	1,418,788	37,253,956
2019	508,172	1,546,174	39,557,045
Population Changes			
1990-2000	37,653	182,281	4,111,627
Avg. Annual Change	1.0%	1.8%	1.4%
2000-2010	59,470	195,289	3,382,308
Avg. Annual Change	1.5%	1.6%	1.0%
2010-2019	41,684	127,386	2,303,089
Avg. Annual Change	1.0%	1.0%	0.7%
1990-2019	138,807	504,956	9,797,024
Avg. Annual Change	1.3%	1.7%	1.1%

(City of Sacramento, General Plan Housing Element, August 17, 2021, pp. H-1-2)

4.1.B Housing Stock

Sacramento’s stock of housing has grown year over year since 1990. Between 1990 and 2006, the City issued, on average, roughly 1,900 residential permits per year, exhibiting some similar development patterns as the region. Housing construction in the City of Sacramento between the years 2000 and 2010 resulted in nearly 32,000 additional housing units, most of which was located in North Natomas. Of this new housing, approximately 20,000 units consisted of single-family homes and 11,000 units consisted of multi-family dwellings. The housing growth over this period represented the City’s highest rate since the 1950s. (City of Sacramento, General Plan Housing Element, August 17, 2021, pp. H-1-13) The rate of housing construction was significantly less between 2007 and 2012 as a result of a recession. During this period, the City produced only about 800 units per year. (City of Sacramento, General Plan Background Report (March 2015), pp. 2-196) However, in 2012, a renewed interest in new home lots and an increase in new home sales signaled a rebound in home construction. (City of Sacramento, General Plan Background Report (March 2015), pp. 2-197)

The table below shows the housing growth over the decades spanning 1990 and 2020. Of the unit totals, approximately 66% of Sacramento’s housing stock is comprised of single-unit homes, with the remaining 34% comprised of multi-unit units. The City’s share of multi-family housing is higher than the County’s average of 29% and its largest concentration is located in the Central City area, which accounts for approximately 81% of this area’s housing.

Table 2: Historical Housing Growth

Housing Growth by Decade	1990	2000	2010	2020
Total Housing Units	153,362	163,914	190,911	198,971
Additional Units Over 10 Years Prior		10,552	26,997	8,060
Percent Change Over 10 Years Prior		6.9%	16.5%	4.2%

(City of Sacramento, General Plan Housing Element, August 17, 2021, pp. H-1-13)

4.1.C Employment

Large employment sectors in the Sacramento region consist of state government and related industries, health services, financial services, and retail. Sacramento is also increasingly capturing new jobs in the technology and energy industries. The City’s current and expanding employment base has a direct effect on the City’s

housing needs and creates a positive effect to the City’s employment/ housing/ population balance. (City of Sacramento, General Plan Housing Element, December 17, 2013, pp. H 3-14)

As a result of an economic recession, the entire Sacramento region lost nearly 100,000 jobs between 2006 and 2011, which impacted the City’s employment base and job availability. During this timeframe, the region lost some specialization in financial services and construction, but maintained professional & business services and gained in government. (City of Sacramento, General Plan Background Report (March 2015), pp. 2-244)

In 2010, the City had approximately 250,570 jobs and employment grew to approximately 302,110 jobs by 2017 with post-recession growth. Over this timeframe, the City of Sacramento’s employment base grew by nearly 21%, averaging an additional 7,360 jobs per year. Annually, this equates to an average growth rate of 2.7%. Additionally, the City captured approximately 42% of the region’s employment growth, indicating that the City has maintained and strengthened its position as a major employment center in the region. (City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 19)

The City’s primary jobs base continues to be concentrated in the government sector. As of 2017, nearly 120,000 jobs, or approximately 39% of the City’s entire employment base, consisted of jobs in the Local, State and Federal government sector. The second-highest employment sector is healthcare and social assistance, with approximately 38,000 jobs that comprise nearly 13% of the City’s employment base. Comparing employment sectors for the period between 2010 and 2017, the City’s largest employment gains were in health care and social assistance, administration and waste services, accommodation and food services, and local government. While some sectors experienced significant job growth, two sectors, State government and educational services, experienced a loss of jobs in the City. (City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 19) A comparison of the City’s employment growth by industry sector for the period between 2010 and 2017 is summarized in the table below.

Table 3: Historical Employment by Sector

Employment	2010		2017		Absolute Change	Avg. Annual Change
	Jobs	% of Total	Jobs	% of Total		
Sector Type						
Agriculture, Forestry, Fishing and Hunting	135	0.1%	116	0.0%	-19	-2.1%
Mining, Quarrying, and Oil and Gas Extraction	n/a	n/a	10	0.0%	n/a	n/a
Utilities	32	0.0%	98	0.0%	66	17.3%
Construction	7,096	2.8%	10,848	3.6%	3,752	6.3%
Manufacturing	6,403	2.6%	7,571	2.5%	1,168	2.4%
Wholesale Trade	5,027	2.0%	7,788	2.6%	2,761	6.5%
Retail Trade	15,790	6.3%	19,470	6.4%	3,680	3.0%
Transportation and Warehousing	4,017	1.6%	5,164	n/a	1,147	3.7%
Information	3,634	1.5%	3,305	1.1%	-329	-1.3%
Finance and Insurance	5,058	2.0%	6,038	2.0%	980	2.6%
Real Estate and Rental and Leasing	2,443	1.0%	2,996	1.0%	553	3.0%
Professional and Technical Services	13,539	5.4%	16,058	5.3%	2,519	2.5%
Management of Companies and Enterprises	2,093	0.8%	2,852	0.9%	759	4.5%
Administrative and Waste Services	11,920	4.8%	21,881	7.2%	9,961	9.1%
Educational Services	3,952	1.6%	3,634	1.2%	-318	-1.2%
Health Care and Social Assistance	24,989	10.0%	38,504	12.7%	13,515	6.4%
Arts, Entertainment, and Recreation	3,026	1.2%	3,793	1.3%	767	3.3%
Accommodation and Food Services	15,230	6.1%	22,558	7.5%	7,328	5.8%
Other Services, except Public Administration	9,222	3.7%	9,541	3.2%	319	0.5%
Federal Government	1,696	0.7%	2,759	0.9%	1,063	7.2%
State Government	86,043	34.3%	81,987	27.1%	-4,056	-0.7%
Local Government	29,086	11.6%	34,577	11.4%	5,491	2.5%
Unclassified/Not Elsewhere Classified	n/a	n/a	566	0.2%	n/a	n/a
TOTAL	250,571	100%	302,111	100%	51,540	2.7%

(City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 21)

4.2 GROWTH PROJECTIONS

Population, housing, and employment growth in the City of Sacramento and the surrounding region is expected to continue at a pace similar to historical trends. Projections for each of these subsets is summarized below.

4.2.A Population

As of 2019, the City of Sacramento was estimated to have a population of 508,172. (*City of Sacramento, General Plan Housing Element, August 17, 2021, pp. H-1-1*) The Sacramento Area Council of Governments (SACOG) routinely updates its growth projections for the six-county region. The City's growth rate since 1990 has more or less equaled the overall growth in the State of California, with a slightly slower rate of growth from 1990-2000 and slightly faster rate of growth from 2000-2019. SACOG estimates that the City will continue to add new residents at a rate of approximately 1.1% per year through the year 2040, which would increase Sacramento's population by approximately 140,000. (*City of Sacramento, General Plan Housing Element, August 17, 2021, pp. H-1-1*) By the year 2040, SACOG's projections indicate that the City's population will reach 618,439 people. (SACOG, SACOG 2020 MTP/SCS Modeling Projections for 2016 and 2040 (<https://www.sacog.org/post/sacog-2020-mtpscs-modeling-projections-2016-and-2040>), 2021)

4.2.B Housing

Based on SACOG's estimates in their 2020 MTP/SCS, the City of Sacramento is expected to have approximately 261,000 housing units by the year 2035. This accounts for approximately 20% of the region's housing growth by this horizon. This projection also suggests that by 2035, approximately 50% of the City's units will be multifamily. (*City of Sacramento, General Plan Background Report (March 2015), pp. 2-198-199*) By the year 2040, SACOG estimates that the City's housing stock will increase to 266,781 units. (SACOG, SACOG 2020 MTP/SCS Modeling Projections for 2016 and 2040 (<https://www.sacog.org/post/sacog-2020-mtpscs-modeling-projections-2016-and-2040>), 2021) Due to the differences in the data sources, the City and SACOG have slightly different housing projections, which are represented over different timelines. Despite these differences, both continue to project that housing growth will continue in the City.

4.2.C Employment

Approximately 299,732 jobs were available in the City of Sacramento in 2008. (*City of Sacramento, General Plan Housing Element, December 17, 2013, pp. H 3-14*) By 2016, the City's employment increased to 308,724 jobs, a time period that included an economic recession in which the Sacramento region lost jobs between 2006 and 2011, before employment began rebounding in 2012. Compared to 2016, SACOG's forecasting indicates that the City will experience an 18% increase in its employment base by 2040, resulting in an estimated 364,819 jobs, an increase of approximately 56,000 jobs in this time period. (SACOG, SACOG 2020 MTP/SCS Modeling Projections for 2016 and 2040 (<https://www.sacog.org/post/sacog-2020-mtpscs-modeling-projections-2016-and-2040>), 2021) This translates to a job growth rate of approximately 0.7% per year. SACOG estimates that the City's job growth will occur at a slower rate compared to the entire Sacramento region, where employment growth could add approximately 252,840 new jobs over this period at a rate of roughly 0.9% per year. (*City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 90*)

Over this time period, the office employment sector is anticipated to experience the largest gains, resulting in approximately 15,225 new jobs, at a rate of 1.2% annually. Other employment areas that are anticipated to experience significant job gains include the medical, government, and retail sectors. (*City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 91*) The table below summarizes the City's employment growth projections for various employment sectors during the period spanning 2016 and 2040.

Table 4: Employment Growth Projections by Sector

Employment Sector Type	2016		2040		Absolute Change	Avg. Annual Change
	Jobs	% of Total	Jobs	% of Total		
Education	14,257	4.6%	18,753	5.1%	4,490	1.1%
Food	20,583	6.7%	24,476	6.7%	3,884	0.7%
Government	52,622	17.0%	60,807	16.7%	8,165	0.6%
Office	82,549	26.7%	97,805	26.8%	15,225	0.7%
Retail	31,266	10.1%	37,067	10.2%	5,788	0.7%
Services	28,689	9.3%	33,645	9.2%	4,945	0.7%
Medical	27,941	9.1%	41,177	11.3%	13,222	1.6%
Industrial	30,656	9.9%	31,043	8.5%	377	0.1%
Other	20,171	6.5%	20,177	5.5%	0	n/a
TOTAL	308,735	100%	364,949	100%	56,214	0.7%

(City of Sacramento, bae urban economics, Market Demand Study | Sacramento General Plan Update, July 23, 2019, p. 92)

4.3 RESIDENTIAL LAND BUILDOUT POTENTIAL

SACOG establishes the City of Sacramento’s requirement to provide its share of the region’s housing need through its Regional Housing Needs Allocation (RHNA). For the period of 2021-2029, SACOG determined that the City of Sacramento’s RHNA is 45,580 units. (SACOG, *Regional Housing Needs Plan (2021-2029)*, March 2020, pp. 4-3) This equates to a yearly average of 5,581 housing units that the City must plan to accommodate between the period spanning June 30, 2021 through August 31, 2029. Based on its assessment of available residential capacity within the City, there is a total capacity for 51,191 housing units within planned residential developments and master planned communities, as well as on vacant land and underutilized sites. This capacity is sufficient to accommodate the RHNA of 45,580 units. (City of Sacramento, *General Plan Housing Element*, August 17, 2021, p. 18)

4.4 DETERMINATIONS

Based on the information above, the following determinations can be made:

- Sacramento’s population has grown steadily since 1990 and its growth rate since 1990 is approximately equal to the State of California’s rate, with a slightly slower rate of growth from 1990-2000 and slightly faster rate of growth from 2000-2018.
- Large employment sectors in Sacramento consist of state government and related industries, health services, financial services, and retail, and the City is increasingly capturing new jobs in the technology and energy industries. The region’s current and expanding employment base has a direct effect on the City’s housing needs.
- Sacramento’s stock of housing has also grown since 1990, with nearly 27,000 additional housing units added between the years 2000 and 2010, then slowing during an economic recession before a home construction rebound commenced in 2012. By 2020, approximately 8,000 additional units were constructed, resulting in a total Citywide housing stock of 198,971 units.
- Sacramento’s population is forecasted to increase by 1.1% annually between the years 2020 and 2040, with a housing stock of approximately 266,781 units by the year 2040.
- Employment growth is expected to continue with an approximate 0.7% annual increase in jobs expected between 2020 and 2040, with total employment reaching an estimated 364,949 jobs by the year 2040.

5. Disadvantaged Communities

5.1 OVERVIEW

Legislation regarding Disadvantaged Unincorporated Communities (DUCs) in the State of California became effective in 2012 with the passage of Senate Bill 244 (SB 244) on October 7, 2011. SB 244 is intended to promote infrastructure improvement investments in DUCs by establishing new requirements for LAFCOs to identify DUCs and to consider provision of water, wastewater and fire protection services for these areas.

DUCs are broadly defined as inhabited territory, pursuant to California Government Code Section 56046, or as determined by commission policy, that constitutes all or a portion of a “disadvantaged community” as defined by Section 79505.5 of the Water Code. As more specifically defined, a DUC consists of at least 10 dwelling units in a fringe, island, or legacy community where the median household income is 80 percent or less of the State’s established median household income. An unincorporated fringe community is considered any inhabited and unincorporated territory that is within a City’s SOI. An unincorporated island community is defined as any inhabited and unincorporated territory that is surrounded/substantially surrounded by the boundary of one or more cities, counties, or the Pacific Ocean. An unincorporated legacy community is one that is geographically isolated that has been inhabited and/or existed for at least 50 years.

The proposed ASI SOI expansion area is not developed and is located in unincorporated Sacramento County, however it lies adjacent to a portion of the western edge of Sacramento’s City limits. The area surrounding the proposed SOI expansion area consists of a combination of undeveloped/vacant land and developed residential neighborhoods. To the east of the proposed expansion area, existing development consists of single-family residential neighborhoods that are part of a gated community in the City of Sacramento. To the north of the proposed SOI expansion area, across I-5, existing and planned development consists of non-residential, industrial/warehousing uses within the Metro Air Park. To the south and west of the proposed SOI expansion area, land is vacant and a portion of these areas are designated for permanent open space for natural resources. None of these surrounding areas meet the definition of a DUC.

5.2 DETERMINATIONS

Based on the information above, the following determination can be made regarding disadvantaged communities:

- There are no disadvantaged unincorporated communities within, or adjacent to, in the proposed ASI SOI expansion area.

6. Public Facilities & Services

The City of Sacramento provides a comprehensive level of municipal services including water, wastewater, solid waste, storm drainage, law enforcement, fire protection, transportation and street maintenance, parks and recreation, library, and general governmental services. The City also has a Capital Improvement Program for the advancement of its public facilities and services. This subsection addresses the current and planned availability of the City’s various municipal services and public facilities.

6.1 WATER

Potable water supply for the City of Sacramento is sourced from the Sacramento River, the American River, and several groundwater wells located in the North and South American Subbasins. The City operates and maintains its water infrastructure network throughout the City, which consists of water treatment facilities, groundwater wells, pumping facilities, storage tanks, and transmission/distribution pipelines.

6.1.A Existing Levels of Service and Improvements

Water Service Area

The City of Sacramento is both a water retailer and a water wholesaler and it maintains facilities that produce, treat, store, and deliver drinking water to its customers. The City’s retail water service area is approximately 101 square miles in size, which serves customers predominantly located within the City’s corporate limits and foreseeable future City expansions. The City also serves a small number of customers outside its limits in an adjacent, unincorporated portion of Sacramento County. In addition, the Sacramento Power Authority’s (SPA) Cogeneration (Cogen) Facility is located outside of the City limits and currently receives potable water from the City and recycled water through a partnership with the Regional Sanitation District. The City also provides wholesale water service to other agencies from its entitlements. Wholesale customers include Sacramento County Water Agency (including the Sacramento International Airport), Sacramento Suburban Water District, and California American Water Company. Additionally, the City “wheels” water to Sacramento County Water Agency Zone 40 by using that agency’s water supply entitlements.

The City holds rights to divert surface water from both the Sacramento River and the American River, which is treated via the Sacramento River Water Treatment Plant and the E.A. Fairbairn Water Treatment Plant. The City also produces water from its groundwater wells that are located throughout its water service area. A citywide network of water pipelines, tanks, and pumping facilities is operated and maintained in order to deliver water to the City’s retail and wholesale customers. *(City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. ES-2)*

Surface Water Supply

The City has relied on river water for its primary source of supply since 1854 and among other rights claims pre-1914 rights to divert water from the Sacramento River. The City holds five (5) water rights permits: one (1) for diversion of Sacramento River water and four (4) for diversion of American River water. *(City of Sacramento, Urban Services Management Plan, November 2006, pp. 4-1)* Based on the above-described agreements with the United States Bureau of Reclamation (USBR), the City can divert up to 245,000 acre-feet per year (AFY) from the American River and up to 81,800 AFY from the Sacramento River. Combined, the City of Sacramento is permitted to divert up to 326,800 AFY annually for its water supply portfolio. The City’s water rights, in conjunction with its USBR agreements, provide the City with a very reliable and secure surface water supply. *(City of Sacramento, General Plan Background Report (November 2020), pp. 4-31)*

Table 5: Projected Annual Surface Water Supply

Water District	Projected Water Supply Volume				
	2025	2030	2035	2040	2045
Sacramento River	81,800	81,800	81,800	81,800	81,800
American River	228,000	245,000	245,000	245,000	245,000
TOTAL	309,800	326,800	326,800	326,800	326,800

(City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 6-9)

In 1957, the Bureau of Reclamation (Bureau) and the City of Sacramento executed a water rights settlement contract, which among other provisions, provides that:

- The Bureau agreed to regulate flows at Folsom Reservoir so as to assure the City's ability to divert up to 245,000 acre-feet/year under the City's American River water rights and to operate Central Valley Project (CVP) reservoirs so as not to interfere with the City's exercise of its Sacramento River water rights.
- The City agreed to limit its total diversion rates, including direct diversions and re-diversions of stored water release from upstream reservoirs, to 225 cfs of Sacramento River water and 675 cfs of American River water.

- The City agreed to limit its total diversions from the Sacramento and American rivers to 326,800-acre feet/year.

(City of Sacramento, *General Plan Background Report (November 2020)*, pp. 4-30)

Under the Water Forum Agreement, the City has agreed to restrict its diversions out of the expanded Fairbairn Water Treatment Plant (FWTP) during periods when flows in the Lower American River are less than the minimum flows specified by Judge Hodge in the Environmental Defense Fund vs. East Bay Municipal Utility District litigations (i.e., Hodge Flows). Water Forum conditions also include additional restrictions during extremely dry years (when March through November Folsom inflow is less than 400,000 AF). (City of Sacramento, *General Plan Background Report (November 2020)*, pp. 4-31 to 4-32)

Groundwater Supply

As of 2020, the City operated 26 permitted municipal groundwater supply wells within the City limits. These wells supply the City with approximately 20 million gallons per day (mgd) of reliable municipal water, which is pumped from the North American and South American Groundwater Sub Basins. The City's average groundwater deliveries between 2006 to 2017 was approximately 16 mgd. The City also operated 22 non-potable groundwater wells for park irrigation. The City is a member of both the Sacramento Groundwater Authority (SGA) and Sacramento County Groundwater Forum (SCGF). The SGA and SCGF share a common goal to responsibly manage the groundwater basin through a commitment to not exceed each basin's long-term sustainable yield. The SGA sustainable yield is estimated to be approximately 131,000 AFY and the SCGF sustainable yield is estimated to be approximately 273,000 AFY according to the Water Forum Agreement (WFA) and GMPs. The sustainable yields determined through the WFA provide for sufficient groundwater pumping to meet the projected level of groundwater demand through 2030. (City of Sacramento, *General Plan Background Report (November 2020)*, pp. 4-34 to 4-35)

City Water Infrastructure Facilities

The City's water infrastructure network consists of two surface water treatment facilities, two pressure zones, and a supporting system of groundwater wells, pumping facilities, storage tanks, and distribution/transmission pipelines.

- **Water Treatment Facilities:** The City treats its surface water diversions at both the Sacramento River Water Treatment Plant (SRWTP) and the E.A. Fairbairn Water Treatment Plant (EAFWTP). The SRWTP treats Sacramento River water and has a maximum processing capacity of 160 million gallons per day (MGD). The City is permitted to operate this plant at 160 MGD in the summer months and 120 MGD in the shoulder months, however treatment capacity may be lowered to 135 MGD in the summer months if certain low-river levels occur. The City is evaluating the potential to increase this plant's diversion and treatment capacity to 310 MGD. The EAFWTP treats American River water and is currently rated for a diversion capacity of 200 MGD, with a permitted treatment capacity of 160 MGD. The EAFWTP was designed to be expanded in stages to an ultimate treatment capacity of 404 MGD. However, due to several factors, the EAFWTP's current reliable capacity during peak demand periods is 80 MGD, with the ability to operate at up to 100 MGD for short time periods. (City of Sacramento, *2020 Urban Water Management Plan, June 2021*, pp. 3-8)
- **Pressure Zones:** The City's water distribution system is divided into two pressure zones. High service pumps at each treatment plant pumps water into the distribution system to create a pressure zone that serves most of the City. However, a second pressure zone is utilized for a small zone in the northeast area of the City. On average the City maintains approximately 45 pounds per square inch (psi) throughout its system with a minimum pressure threshold of 30 psi. (City of Sacramento, *2020 Urban Water Management Plan, June 2021*, pp. 3-9)
- **Groundwater Wells:** The City currently operates and maintains 26 permitted groundwater wells in the North American Subbasin and 2 permitted wells in the South American Subbasin. Of these, 23 are operated regularly to supply municipal water. Additionally, the City operates 22 irrigation/park supply wells, and three recently-completed, but not-yet-permitted wells. The total maximum pumping capacity of all wells is approximately 23 MGD, but factoring in a reduced availability of well production, the total pumping capacity is approximately 14 to 20 MGD. (City of Sacramento, *2020 Urban Water Management Plan, June 2021*, pp. 3-9)

- **Pumping Facilities:** The City operates and maintains a combined 18 high-lift service pumps at its water treatment plants and has capacity to add an additional 6 high-lift service pumps at the EAFWTP. Each storage reservoir includes pump stations to supply water to customers as demand varies. The City maintains one additional booster pump station to serve water in a small separated pressure zone in the northeast part of the City. (*City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 3-9*)
- **Storage Tanks:** The City operates and maintains 17 water storage facilities. These include 12 reservoirs that are located throughout the City, and five finished water clearwells that are located at each water treatment plants. The system's total reservoir storage capacity is 49 million gallons (MG) and its total clearwell capacity is approximately 45 MG. (*City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 3-9*)
- **Distribution/Transmission Pipelines:** The City maintains approximately 1,800 miles of transmission and distribution system mains throughout the City, which range in size between 2" and 72" in diameter. Of this network, approximately 415 miles of pipelines exceed 12" in diameter, while approximately 70% consists of 6" and 8" diameter pipelines. The City has one dedicated pipeline that conveys recycled water from the Sacramento Regional Wastewater Treatment Plant to the Sacramento Power Authority Cogeneration Facility. (*City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 3-9*)

Project Site Water Infrastructure Facilities

The City of Sacramento operates and maintains a 30" water transmission main in South Bayou Way that terminates near the east edge of the ASI project site. This transmission main was originally constructed to "wheel" the City's water through the County of Sacramento to nearby development areas, including the Sacramento International Airport and Metro Air Park, both located in proximity to the project site.

Existing on-site water infrastructure includes a 16"/24" transmission main and a parallel 12" redundant main in South Bayou Way, which are operated and maintained by the County of Sacramento. These facilities extend westward into the site from a City/County metering station located immediately east of the project boundary. The County's system ties to other transmission mains that serve Metro Air Park and the Sacramento International Airport and includes a two, 1.4-million gallon water tanks that are located immediately west of the project site, near the southwest intersection of I-5 and Power Line Road.

Water Conservation

The City implements several water conservation measures to reduce potable water demand from customers. This is achieved primarily by applying several types of Demand Management Measures (DMMs) that are outlined in the City's Urban Water Management Plan. These DMM's enable the City to comply with the requirements of Senate Bill X7-7 through adoption of a Water Conservation Plan in 2013. This Plan established water conservation goals to help achieve a 20 percent reduction in urban per capita water use in California by the year 2020, which was established at 225 gallons per person per day by 2020. Based on the City's water service area population and water use in 2020, the City met and exceeded its water conservation target with a per capita water use of 169 gallons per person per day. (*City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. ES-3*)

6.1.B Plans and Regulatory Requirements

There are numerous Federal, State, and local laws and regulations pertaining to water resources. These include the Federal Clean Water Act (CWA), Federal Safe Drinking Water Act (SDWA), and associated State regulations that implement these Acts.

State regulations addressing drinking water standards, including water treatment and quality, have been established by the State Department of Health Services (DHS) and are included in Title 22 of the California Code of Regulations (CCR). In addition, the City of Sacramento and the SOI expansion area are within the jurisdiction of the Central Valley Regional Water Quality Control Board (CVRWQCB), which is responsible for implementing the CWA at the State level. The CVRWQCB regulates discharges to surface water and groundwater through the establishment and enforcement of waste discharge requirements, as needed to prevent pollution or nuisance and implement water quality standards (Water Quality Control Plan for the Sacramento River Basin and San Joaquin River Basin). Water quality regulations are included in Title 27

of the CCR. The diversion and use of surface water supplies by jurisdictions is subject to applicable provisions of the California Constitution and State laws. The State Water Resources Control Board (SWRCB) is responsible for the administration of appropriative water rights acquired after 1914. In addition, surface water delivery requirements under various Federal and State programs (e.g., U.S. Bureau of Reclamation CVP, State Water Project, and CALFED) must also be considered in evaluating the availability of supplies.

The various plans and regulatory requirements for water resources are summarized in this sub-section.

Federal Requirements

U.S. Environmental Protection Agency (EPA). The EPA has established primary drinking water standards in Section 304 of the Clean Water Act (CWA). It requires that all States ensure that potable water for the public meets CWA standards, which includes standards for 81 individual constituents. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-38)

State Requirements

Water Management Planning Act. California Water Code Section 10610 (et seq.) requires that all public water systems providing municipal water to more than 3,000 customers, or supplying more than 3,000 AFY, prepare an Urban Water Management Plan (UWMP). The Department of Water Resources (DWR) provides guidance to urban water suppliers in the preparation and implementation of UWMPs. UWMPs must be updated at least every five years on or before December 31, in years ending in five and zero. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-38) The City adopted its most recent UWMP in June 2021.

Senate Bill 610 - Water Supply Assessments. Senate Bill (SB) 610 requires that water supply and demand analysis be conducted as part of a land use planning process. SB 610 amended the statutes of the Urban Water Management Planning Act, as well as the California Water Code section 10910 et seq. A Water Supply assessment (WSA) is required for projects of a certain size and must identify the total projected water supplies that will be available during normal, single dry and multiple dry water years during a 20-year projection. The foundation document for compliance with SB 610 is the UWMP. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-38)

Senate Bill 221- Written Verification of Water Supply. Government Code Section 66473.7(a)(1) requires an affirmative written verification of sufficient water supply prior to approval of a tentative map for projects meeting a certain size threshold. This verification, like SB 610, must include documentation of historical water deliveries for the previous 20 years, as well as a description of reasonably foreseeable impacts of the proposed subdivision on the availability of water resources of the region. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-39)

Drinking Water Quality. The California Department of Public Health (DPH) is responsible for implementing the Federal Safe Drinking Water Act of 1974 and its updates, as well as California statutes and regulations related to drinking water. DPH inspects and provides regulatory oversight for public water systems within California. In the Sacramento region, the Central Valley Regional Water Quality Control Board (CVRWQCB) is responsible for protecting the beneficial uses of the State's municipal drinking water supply. Public water system operators are required to regularly monitor their drinking water sources for microbiological, chemical, and radiological contaminants to show that drinking water supplies meet the regulatory requirements listed in Title 22 of the California Code of Regulations as primary maximum contaminant levels (MCLs). Public water system operators are also required to monitor for a number of other contaminants and characteristics that address the aesthetic properties of drinking water. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-39)

Senate Bill X7-7. In February 2010, the 20x2020 Water Conservation Plan was released as part of an effort to reduce stress on the environment of the Sacramento-San Joaquin Delta. The plan outlines a statewide road map to maximize urban water efficiency and conservation. The draft of this plan served as the basis for Senate Bill X7-7 (aka the Water Conservation Act of 2009), which set a goal to achieve a 20 percent reduction in urban per capita water use in California by 2020. The law requires urban water suppliers to establish water conservation targets for the years 2015 and 2020. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-39)

Assembly Bill 1465. Assembly Bill 1465 requires that urban water suppliers include their water demand management measures in the Urban Water Management Plan. Suppliers are required to describe

opportunities to offset potable water use by utilizing water that is already available through stormwater recapture or recycled water use. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-40)

Sustainable Groundwater Management Act. Passed in September 2014, the Sustainable Groundwater Management Act (SGMA) was a legislative package comprised of three bills: AB 1739 (Dickinson), SB 1168 (Pavley), and SB 1319 (Pavley). The legislation provides a framework for sustainable management of groundwater supplies by local authorities, with a limited role for state intervention when necessary to protect the resource. The legislation provides a process and timeline for local authorities to achieve sustainable management of groundwater basins. In order to be in compliance with SGMA, agencies must form local Groundwater Sustainability Agencies (GSAs), which must adopt Groundwater Sustainability Plans (GSPs) which must implement specific sustainability goals within 20 years. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-40 to 4-41)

Assembly Bill 1168 and Senate Bill 606. Passed in 2018, AB 1668 and SB 606 build on existing Senate Bill X7-7 and the goal to reduce urban per capita water use by 20 percent in California by the year 2020. Key elements of the laws include requirements to establish water use objectives and long-term standards for efficient water use that apply to urban retail water suppliers. The objectives are based on indoor residential water use, outdoor residential water use, commercial, industrial and institutional irrigation with dedicated meters, water loss due to leaks in water system pipes, and other unique local uses. AB 1668 provides standards for indoor residential water use, establishing a 55 gallons per capita per day (gpcd) standard until 2025, a 52.5 gpcd standard after 2025, and a 50 gpcd standard after 2030. SB 606 requires urban water suppliers to annually calculate actual urban water use and report to the Department of Water Resources, with the first report being due by November, 2023. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-41)

Local Requirements

Water Forum Agreement. The City of Sacramento is a member of the Water Forum. The Water Forum is a diverse group of business and agricultural leaders, citizens groups, environmentalists, water managers and local governments in the Sacramento region. These stakeholders agreed to a series of actions, or elements, to achieve the Water Forum's two co-equal objectives. These include providing a reliable and safe water supply for the region's economic health and planned development to the year 2030; and preserving the fishery, wildlife, recreational and aesthetic values of the Lower American River.

Urban Water Management Plan. The City of Sacramento's 2020 Urban Water Management Plan (UWMP) was adopted in June 2021 as a means to assess the availability and reliability of its water supplies over a 20+ year horizon. The California Water Code specifies the requirements of an UWMP, including elements that address a water supplier's water supply sources, existing facilities, water usage, service reliability, drought risk, demand reduction measures, regulatory compliance, and other factors. The data in the City's UWMP was used for this MSR to identify the City's water demands at buildout and assess its ability to serve the SOI expansion area.

City of Sacramento General Plan. The City's 2035 General Plan contains policies and implementation measures relevant to water service. Applicable policies are summarized below:

- **Policy U 1.1.1 Provision of Adequate Utilities** that requires the City to provide and maintain adequate water, wastewater, and stormwater drainage utility services to areas in the city currently receiving these services from the City, and to provide and maintain adequate water, wastewater, and stormwater drainage utility services to areas in the city that do not currently receive these City services upon funding and construction of necessary infrastructure.
- **Policy U 1.1.4 Timing of Urban Expansion** that requires the City to assure that new public facilities and services are phased in conjunction with the approved urban development they are intended to serve.
- **Policy U 1.1.5 Growth and Level of Service** that directs the City to require new development to provide adequate facilities or pay its fair share of the cost for facilities needed to provide services to accommodate growth without adversely impacting current service levels.
- **Policy U 2.1.9 New Development** that requires the City to ensure that water supply capacity is in place prior to granting building permits for new development.

City of Sacramento Design Standards. Section 13 of the City’s Design Standards sets forth requirements regarding the design and operation of water distribution facilities. Those requirements include standards for pipe design, fire hydrants, and specific requirements for residential, commercial and industrial water service. (*City of Sacramento, General Plan Background Report (November 2020), pp. 4-42*)

6.1.C Study Area Level of Service Improvements

Planned Improvements

Upon approval of the SOI expansion, potable water service to the ASI project will be provided by the City of Sacramento. Project development includes construction of a City-operated and maintained domestic and fire water system that will connect to the City’s existing 30” transmission main located east of the project site, east of the City/County metering station. From this point of connection, a 24” water transmission main will be constructed in new on-site roadways and will be extended to Power Line Road. These improvements may include emergency cross-ties into the County’s system to the north and/or into the City’s system adjacent to the Westlake community to the east. The on-site water system serving the ASI project is intended to be operated separately from the County’s on-site system. However, portions of the County’s transmission mains are planned to be re-routed internally as development proceeds.

City’s Future Water Demand Projections

As outlined in the 2020 UWMP, the City routinely evaluates its water supply sources and prepares projections for future water demands. These projections are summarized in the tables below.

Table 6: Historical Water Demand by Use Sector (AFY)

Water Use Sector	2016	2017	2018	2019
Single Family	41,435	41,868	40,853	39,414
Multi-Family	13,825	12,892	12,171	13,470
Commercial (and Industrial)	16,751	17,949	17,889	16,572
Institutional (and Governmental)	4,029	4,464	4,668	5,478
Landscape	4,275	4,915	4,676	2,492
Other	79	127	235	492
<i>Sub-Total Retail Demand</i>	<i>80,394</i>	<i>82,215</i>	<i>80,491</i>	<i>77,919</i>
Wholesale Demand	958	2,460	1,027	8,465
Losses	5,803	9,147	11,379	10,998
TOTAL DEMAND	87,155	93,823	92,897	97,382

(*City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 4-2*)

Table 7: Potable & Non-Potable Water Retail Demand Projections (AFY)

Use Type	Projected Water Use*				
	2025	2030	2035	2040	2045 (opt.)
Single Family	46,913	47,491	48,069	48,647	51,098
Multi-Family	15,334	16,085	16,837	17,588	18,474
Commercial	17,871	19,068	20,266	21,464	22,545
Institutional/Governmental	6,094	6,200	6,306	6,412	6,736
Landscape	5,087	7,144	9,200	11,257	11,824
Other Potable	2,366	4,054	5,742	7,430	7,804
Losses	13,767	13,767	13,766	13,766	14,460
TOTAL	107,432	113,809	120,187	126,564	132,942

* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

(City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 4-4)

The City’s projected retail water demand by the year 2050 is summarized in the table below. This includes an assumed allocation for the Airport South Industrial Area, which coincides with the SOI expansion area that this the subject of this MSR.

Table 8: 2050 Retail Water Use Projections

Parameter	Projected Demand (AF)	Projected Average Day Demand (MGD)
Existing Retail Use ^(a)	91,867	82.0
Drought Rebound Factor for Existing Use ^(a)	9,187	8.2
Increase for Future Retail Use	38,266	34.2
Natomas Joint Vision Area Future Demand ^(b)	15,900	14.2
Airport South Industrial Area	643	0.6
TOTAL 2050 PROJECTED RETAIL USE	155,219	138.6

(a) The City’s on-going Water Master Plan Update used 2018 data for existing retail use and drought rebound factor.

(b) Includes estimated use for the Grandpark Specific Plan and Upper Westside Specific Plan for purposes of a sensitivity analysis but recognizing that the Natomas Joint Vision Area would require annexation into the City prior to receiving any water supply and services from the City of Sacramento.

(City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. 4-5)

The City has a buildout surface water allocation of 326,800 AFY and a groundwater supply estimate of 39,155, AFY, for a total supply of 365,955 AFY. This supply exceeds the projected total water demand for the year 2050, as outlined in the table above. And as noted previously, the projected 2050 water demand includes service to the ASI SOI expansion area.

In addition, to meet current and future water demands in a reliable manner, the City is evaluating several projects to increase its long-term water treatment capacities. This includes the potential expansion of the Sacramento River Water Treatment Plant and construction of the RiverArc project, a new regional water treatment plant. Additional measures are provided for in various City master plans. The City’s ongoing Water Master Plan Update includes recommendations for the City to continue pursuing a rehabilitation of the E.A. Fairbairn Water Treatment Plant and a retrofit to the intake at the Sacramento Water Treatment Plant. And the City’s Groundwater Master Plan includes recommendations for the City to expand its groundwater program. (City of Sacramento, 2020 Urban Water Management Plan, June 2021, pp. ES-3)

ASI Project Water Demands

A Preliminary Water Study was prepared to analyze the planned water infrastructure system designed to support development of the ASI project. It evaluates proposed land uses, potable water system hydraulics, and infrastructure-level improvements. The modeling conducted for this Study indicates that project buildout will generate water demands as summarized in the table below.

Table 9: ASI Project Water Demand Summary

Land Use	Acreage	ADD Unit Water Demand		Demand (gpm)		
		AFY/Acre	GPM/Acre	ADD	MDD	PHD
Mixed Use	13.4	2	1.24	17	33	43
Industrial	236.5	0.9	0.56	132	264	343
Future Industrial	83	0.9	0.56	46	93	120
TOTAL	332.9	--	--	195	390	507

(Wood Rodgers, ASI Preliminary Water Study, August 29, 2022, p. 4)

Based on the data in the table above, the total average daily demand for the proposed ASI project is approximately 314 acre-feet per year (AFY).

6.1.D Determinations

Based on the information above, the following determinations can be made:

- The City of Sacramento is both a water retailer and a water wholesaler and it maintains an infrastructure system for the production, treatment, storage, and delivery of water to customers in its 101-square-mile service area.
- The City has adequate water supply resources and water rights to serve the City of Sacramento and its other wholesale customers, including the proposed SOI expansion area.
- The City’s water sources are derived from surface water diversions from both the Sacramento and American Rivers, and from the production of water from groundwater wells.
- The City’s water infrastructure network consists of two surface water treatment facilities, two pressure zones, and a supporting system of groundwater wells, pumping facilities, storage tanks, and distribution/transmission pipelines.
- The City operates and maintains a 30” water transmission main in South Bayou Way that terminates near the east edge of the SOI expansion area, which provides a point of connection to serve development of the ASI project.
- The City’s existing water infrastructure network, including its water supply, treatment facilities, and delivery system can be extended from adjacent development to provide service to the ASI project.

6.2 WASTEWATER

6.2.A Existing Levels of Service and Improvements

Wastewater Collection

The ASI project area is proposed for annexation into Sacramento Area Sewer District (SacSewer) service boundaries. The project site currently lies outside the Sacramento County Urban Services Boundary, and therefore is not included in the current SacSewer boundary. Upon adoption of the SOI Amendment an application will be submitted to Sacramento LAFCo to consider the project area’s annexation into SacSewer’s service district.

The City of Sacramento provides wastewater collection for a portion of the City. The collection system owned and operated by the City consists of a portion that collects only wastewater, and an older central-city portion that consists of a combined system that collects both storm drainage and wastewater. The local City collection system discharges wastewater to Sacramento Regional Wastewater Treatment Plan, where wastewater is collected, treated, and discharged to the Sacramento River and recycled systems within Sacramento County and other areas..

The City-operated local collection system does not include the City of Sacramento North Natomas lands and other areas of the City. The community of Natomas’ collection system is owned and operated by SacSewer and includes all wastewater collection systems that carry up to 10 million gallons per day (mgd) that discharge to the interceptor system. The district provides the collection systems for Metro Air Park, the Sacramento International Airport, and existing North Natomas lands.

The district provides conveyance, treatment and single source of disposal service to a number of contributing agencies. These include the City of Folsom, the City of Sacramento, City of Citrus Heights, City of Rancho Cordova, City of Elk Grove and the City of West Sacramento. Wastewater is discharged into the district's interceptor system and treated at Sacramento Regional Wastewater Treatment Plant (SRWTP). The district provides wastewater conveyance and treatment services to approximately 1.6 million residential, industrial and commercial customers.

Wastewater Treatment

Sacramento Regional Wastewater Treatment Plant (SRWTP) began operation in 1982 and is located on 900-acres of a 3,550-acre site between Interstate 5 and Franklin Boulevard, north of Laguna Boulevard. The remaining 2,650-acres on the site serve as a “bufferland” between the SRWTP and nearby residential areas. Wastewater is treated by accelerated physical and natural biological processes before it is discharged to the Sacramento River. The SRWTP is permitted to treat an average dry weather flow (ADWF) of 181 million gallons per day (mgd). (*California Regional Water Quality Control Board Discharge Permit, April 22, 2021, pp. F-4*)

6.2.B Plans and Regulatory Requirements

Federal and State Requirements

SacSewer is regulated by the Federal government under a strict set of laws generally established under the Federal Clean Water Act (CWA) passed in 1972. Important amendments to the CWA were added in 1977 that further regulate wastewater treatment. The quality of the effluent that can be discharged to waterways in the Sacramento area by the Sacramento Regional Wastewater Treatment Plant (SRWTP) is established by the Central Valley RWQCB through waste discharge requirements (WDRs) that implement the NPDES permit. WDRs are updated at least every 5 years. A new permit must be issued in the event of a major change or expansion of the facility. In April 2021, the Central Valley RWQCB issued Order No. R5-2021-0019, NPDES No. CA 0077682, to the Sacramento Regional County Sanitation District (Regional San) for its Sacramento Regional Wastewater Treatment Plant (SRWTP), which treats wastewater from its service area before discharging the treated effluent into the Sacramento River. The Central Valley RWQCB amended the NPDES Permit (R5-2021-0019-01) to include the production of recycled water by the EchoWater Project in accordance with the 2018 conditionally accepted Title 22 Engineering Report by the Division of Drinking Water. The water quality objectives established in the Central Valley RWQCB Basin Plan are protected, in part, by Order No. R5-2021-0019-01, NPDES No. CA 0077682. Currently, the SRWTP is permitted for a discharge of up to 181 million gallons per day (mgd) of treated effluent into the Sacramento River. Local Requirements:

City of Sacramento General Plan. The City's 2035 General Plan contains policies and implementation measures relevant to wastewater services. Applicable policies are summarized below:

- **Policy U 1.1.4 Timing of Urban Expansion** that requires the City to assure that new public facilities and services are phased in conjunction with the approved urban development they are intended to serve.
- **Policy U 1.1.5 Growth and Level of Service** that directs the City to require new development to provide adequate facilities or pay its fair share of the cost for facilities needed to provide services to accommodate growth without adversely impacting current service levels.

6.2.C Study area Level of Service Improvements

Planned Improvements

The ASI project site is not currently located within SacSewer's Master Plans as a future area to be served. However, upon expansion of the SOI and annexation into the City of Sacramento, the project site would also be annexed into SacSewer's service areas with the expectation that sewer services be extended to the site.

A Level 1 Sewer Study was prepared to evaluate the wastewater flows and the sewer infrastructure needed to serve the ASI project. It demonstrates how project development will construct on-site sewer pipes and a sewer pump station, including several options for the construction of off-site facilities needed to convey

wastewater to existing SacSewer conveyance facilities, then ultimately to the SRWTP for treatment and disposal.

The planned on-site sewer system consists of a pipe network that gravity-flows to a central sewer pump station. Sewer pipes range from 8”-18” in size and are located in public roadways. From the pump station, wastewater is pumped via force main to an existing SacSewer trunk and/or an existing SacSewer interceptor, both of which are off-site and located to the east in the City of Sacramento’s North Natomas community. Because the Sewer Study identifies several options for the construction of off-site facilities, a final alignment will be determined through subsequent studies before development of the ASI project commences. SacSewer staff have indicated that capacity exists in the existing downstream system to accommodate sewage flows from the project.

ASI Project Wastewater Generation

Based on the project site plan, the Sewer Study estimates that the ASI project’s total sewer demand, expressed as equivalent single family dwelling units (ESDs), consists of approximately 81 ESDs of commercial units, 1,870 industrial (warehouse) ESDs, 516 detention basin ESDs, 152 ESDs of roadway/right-of-way, pump stations and buffer spaces. This is summarized in the table below.

Table 10: ASI Project Sewer ESDs

Land Use Code	Land Use Description	Area (ac.)	Sewer Density (du/ac)	ESDs
C	Commercial (Restaurant, Gas Station/Car Wash, Hotel)	13.4	6	80.4
Industrial	Industrial (Warehouse)	311.7	6	1,870.2
Basin	Stormwater Detention Basin	86.0	6	516.0
Buffer	Land Buffer	2.3	6	13.8
PS	Pump Station (Sewer & Stormwater)	0.9	6	5.4
Roads	Internal Roadways & Caltrans Parcel	22.2	6	133.2
I-5	Interstate 5 Corridor	37.9	0	0.0
TOTAL		474.4		2,619.0

(Wood Rodgers, ASI Level 1 Sewer Study, August 31, 2022, p. 4)

Based on the data in the table above, the cumulative ADWF and PWWF demand is expected to be 0.81 mgd and 2.09 mgd, respectively. The project’s sewer pump station will be designed to meet the ultimate peak wet weather flows (PWWF).

Wastewater Treatment

6.2.D The SRWTP began operation in 1982 and is located on 900-acres of a 3,550-acre site between Interstate 5 and Franklin Boulevard, north of Laguna Boulevard. The remaining 2,650-acres on the site serve as a “bufferland” between the SRWTP and nearby residential areas. Wastewater is treated by accelerated physical and natural biological processes before it is discharged to the Sacramento River (Regional San 2020). An upgrade of the SRWTP was completed in spring of 2023. The upgrade, known as the EchoWater Project, was built to meet new water quality requirements that were issued by the Central Valley RWQCB as part of Regional San’s 2014 NPDES permit. The requirements are designed primarily to help protect the Sacramento–San Joaquin Delta ecosystem downstream by removing most of the ammonia and nitrates and improving the removal of pathogens from wastewater discharge. The upgrade will include deployment of new treatment technologies and facilities and will increase the quality of effluent discharged into the Sacramento River and ensure that the SRWTP discharge constituents are below permitted discharge limits specified in the NPDES permit. Flows to the SRWTP have decreased as a result of water conservation efforts over the last 10 years. Further, adequate capacity for wastewater treatment is anticipated well into the future. Flows in 2014 were approximately 141 mgd, compared to the current permitted capacity of 181 mgd. It is not anticipated that further improvements to the SRWTP will be required until after 2050. Determinations:

Based on the information above, the following determination can be made:

- The Sacramento Area Sewer District (SacSewer) provides wastewater collection and treatment services for the majority of the City. Wastewater is collected by SacSewer's trunk facilities and is conveyed via interceptors to the Sacramento Regional Wastewater Treatment Plant (SRWTP) for treatment.
- The SRWTP is a regional wastewater treatment plant that serves the City of Sacramento and several other cities and districts in the region.
- Development of the ASI project includes the construction of on-site sewer pipelines, a pump station, and off-site force mains.
- Planned sewer improvements, including pipelines, pump stations, and force mains have preliminarily been designed to accommodate full buildout of the ASI project.
- The ASI project site will be required to annex into SacSewer service areas to receive sanitary sewer service.
- The SRWTP maintains sufficient capacity to treat wastewater flows generated from buildout of the ASI project.

6.3 CIRCULATION AND ROADWAYS

6.3.A Existing Levels of Service and Improvements

The City's roadway network includes Federal interstates, State highways, and City streets (arterial, collector, and local streets). City streets have different roadway classifications and lane standards, which are defined in its General Plan. The City's roadway system is primarily used for vehicle travel. Citywide, approximately 85% of the City's residents travel between work and home by automobile, of which 11% utilize a carpool. Public transit serves approximately 4% of residents commuting to work, with approximately 3% walking, 2% biking to work, 5% working from home, and 2% using a different form of transportation than specified above. (*City of Sacramento, General Plan Background Report (November 2020), pp. 3-2*)

Federal and State Roadways

Interstate, U.S., and State numbered routes are an integral part of the City's transportation system. These facilities are maintained by the California Department of Transportation (Caltrans) and are described below

- **Interstate 5 (I-5)** is a principal north/south freeway that extends the length of California into Oregon and Washington. In the City, it has six to eight travel lanes, and it is aligned along the eastern bank of the Sacramento River through the downtown core, providing access to residential areas of Natomas and South Sacramento. I-5 also serves as the sole freeway in the region providing access to the Sacramento International Airport, and is a primary route used by long-distance truck traffic.
- **Interstate 80 (I-80)** is a principal east/west freeway that extends across the United States, connecting California to New Jersey. In the Sacramento region, I-80 connects San Francisco/Bay Area to Lake Tahoe and Reno, Nevada. I-80 also serves as a bypass of Sacramento's downtown core via its alignment through the northern area of the City. I-80 is also used as a major truck route between San Francisco/Bay Area, Sacramento, Lake Tahoe region, and further destinations to the east. Within the City, I-80 has six mainline travel lanes, plans are underway for a high-occupancy vehicle (HOV) lane to be added between I-5 and Business 80.
- **Business 80/Capital City Freeway** extends northeast from Sacramento's downtown core and provides access to regional destinations including Cal Expo and Arden Fair Mall. Business 80 is a six to ten lane freeway within the City, and has one HOV lane in either direction between E Street and SR 99.
- **US Highway 50 (US 50)** is a major east/west route located between I-80 in West Sacramento and the City of South Lake Tahoe, and ultimately Ocean City, Maryland. Within the City, US 50 functions as a freeway and has between 8-10 travel lanes.
- **State Route 16 (SR 16)** (AKA Jackson Highway) is a designated State Highway that links the City to eastern Sacramento County and Amador County. SR 16 primarily extends approximately 1.5 miles within the City from the US 50/Howe Avenue interchange to South Watt Avenue.

- **State Route 99 (SR 99)** is a 4-6 lane freeway that extends south from Business 80 to Elk Grove and other destinations in the Central Valley. This segment of SR 99 includes HOV lanes between the downtown core and the City's southern suburbs. A portion of SR 99 is co-designated with US 50 and I-5 through downtown and the Natomas area.
- **State Route 160 (SR 160)** within the City is controlled by Caltrans for the segment between the American River and Business 80. This spur off of the regional freeway system extends across the American River, and is a key route for trips between the downtown core and the northeastern suburbs. All other segments of this route, which are located in the City, have previously been relinquished by Caltrans to the City of Sacramento.

City Roadways

The City's roadway network consists of local, collector, and arterial roadways. Figures 3-1a and 3-1b of the 2040 General Plan Technical Background Report illustrate the City's roadways and their functional classification and travel lanes capacity. Functional classification describes the roadway purpose and use related to moving people and goods. City roadways have the following classifications:

- **Major Arterial Streets** are four to six-lane streets that serve longer distance trips and serve as the primary route for moving traffic through the city connecting urban centers, residential neighborhoods, and commercial centers to one another, or to the regional transportation network. Movement of people and goods, also known as "mobility", rather than access to adjacent land uses, is the primary function of an arterial street. These streets carry moderate-to-heavy vehicular movement, low-to-high pedestrian and bicycle movements, and moderate-to-high transit movement.
- **Minor Arterial Streets** are two-lane streets that serve longer distance trips and provide access to the regional transportation system. These streets carry low-to-moderate vehicular movement, low-to-high pedestrian and bicycle movements, and moderate-to-high transit movement. These roadways typically have high levels of access control.
- **Minor Collector Streets** are two-lane streets that connect residential uses to the major street system. These roadways are undivided and have lower levels of access control to abutting properties than arterials or major collectors.
- **Local Streets** are two-lane streets that provide direct access to abutting land uses and serve individual neighborhoods. These streets carry low vehicular movement, low-to-heavy pedestrian movement, and low-to-moderate bicycle movement.
- **Alleys** are narrow, low volume lanes, paths, or passageways that typically provide shared use for pedestrians, bicycles, and vehicles as a secondary access to abutting properties.

(City of Sacramento, General Plan Background Report (November 2020), pp. 3-5)

Roadway Capacity and Level of Service Thresholds

Level of Service (LOS) is a general measure of traffic operating conditions whereby a letter grade, from A (the best) to F (the worst), is assigned. These grades represent the perspective of drivers and are an indication of the comfort and convenience associated with driving. The LOS grades are generally defined as:

- **LOS A:** Primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at boundary intersections is minimal.
- **LOS B:** Reasonably unimpeded operation. The ability to maneuver within the traffic stream is only slightly restricted and control delay at boundary intersections is not significant.
- **LOS C:** Stable operation. The ability to maneuver and change lanes at midsegment locations may be more restricted than at LOS B. Longer queues at boundary intersections may contribute to lower travel speeds.
- **LOS D:** Less stable condition where small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression, high volume, or inappropriate signal timing at boundary intersections.
- **LOS E:** Unstable operation and significant delay. Operations may be due to some combination of adverse progression, high volume, and inappropriate signal timing at boundary intersections.

- **LOS F:** Extremely low speed speeds. Congestion is likely occurring at boundary intersections, with high delay and extensive queuing.

The City's LOS policy from its 2035 General Plan Mobility Element allows for flexible LOS standards, which accept LOS F operations during peak hours within the "Core Area" and on other specified roadway segments, and LOS E operations within multi-modal districts. The base level of service standard for all areas is LOS D. The roadway segment analysis conducted in 2019 for the 2040 General Plan Update evaluated daily operations on 232 roadway segments. Of the 232 segments, 188 operate at LOS D or better, 16 operate at LOS E, and 28 operate at LOS F. Of the 28 study segments reported to operate at LOS F, 19 would be categorized as "unacceptable" under the 2035 General Plan LOS thresholds. (City of Sacramento, *General Plan Background Report (November 2020)*, pp. 3-58)

Vehicle Miles Traveled

In 2013, the State of California passed Senate Bill 743 (SB 743), which alters how transportation impacts from projects are measured in environmental reviews starting on July 1, 2020. The new standard that is analyzed in traffic and circulation is Vehicle Miles Traveled (VMT). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. VMT per capita is calculated as the total annual miles of vehicle travel divided by the total population in a State or in an urbanized area. Caltrans has published a 2020 Vehicle Miles Traveled-Focused Transportation Impact Study Guide. The TISG replaces the Caltrans Guide for the Preparation of Traffic Impact Studies and is for use with local land use projects. (Cal Trans, *VMT Transportation Impact Study Guide, May 20, 2020, p. 3*)

The Transportation Impact Study Guide (TISG) was prepared by the State of California, Department of Transportation (Caltrans) to provide guidance to Caltrans Districts, lead agencies, tribal governments, developers and consultants regarding Caltrans review of a land use project or plan's transportation analysis using a vehicle miles traveled (VMT) metric. This guidance is not binding on public agencies and it is intended to be a reference and informational document Caltrans seeks to reduce single occupancy vehicle trips, provide a safe transportation system, reduce per capita VMT, increase accessibility to destinations via cycling, walking, carpooling, and transit, and reduce greenhouse gas (GHG) emissions. Those goals along with standard CEQA practice create the foundation of Caltrans review of proposed new land use projects. (Cal Trans, *VMT Transportation Impact Study Guide, May 20, 2020, p. 4*)

CEQA documents will now consider different types of transportation impacts than previously examined. When analyzing the impact of VMT on the State Highway System resulting from local land use projects, the focus will no longer be on traffic at intersections and roadways immediately around project sites. Instead, the focus will be on how projects are likely to influence the overall amount of automobile use. SB 743 specifies that "...automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion, shall not be considered a significant impact on the environment." (California Public Resources Code Section 21099, 2022) and (Cal Trans, *VMT Transportation Impact Study Guide, May 20, 2020, p. 4*)

SB 743, through a new CEQA metric for transportation impacts, sought to promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. (California Public Resources Code Section 21099, 2022, p. (7)(b)(1)) That is, it sought to modernize CEQA transportation analysis in a way that supports these goals. A new metric, VMT, was selected for land use development based on the expectation that a vehicle miles traveled metric will better support greenhouse gas emission reductions and improve multimodal transportation options for land use development. (Cal Trans, *VMT Transportation Impact Study Guide, May 20, 2020, p. 7*)

A lead agency has discretion to choose the most appropriate methodology to evaluate a project's VMT. (California Public Resources Code, Section 15064.3(b)(4), 2022) Caltrans will review an agency's VMT calculator or VMT calculation for consistency with technical considerations in OPR's Technical Advisory. (Cal Trans, *VMT Transportation Impact Study Guide, May 20, 2020, p. 93*)

The Caltrans TISG is not clear regarding the impacts of an industrial warehousing project as it pertains to a VMT analysis. In particular one that has a large number of fulfillment centers that can be used to warehouse goods in order for a more proximate delivery to local regional markets (including direct delivery to residents and businesses). Similarly, the incorporation of a highway commercial component might be considered as capturing vehicular traffic that is already traveling the freeway rather than contributing to VMT.

Transit Services

A wide range of transit services are provided in Sacramento, which includes public bus service, light rail transit, commercial bus service, and interregional and interstate passenger train service. Park-and-ride facilities are also located throughout the City to facilitate ridesharing, carpooling, and access to regional transit.

The Sacramento Regional Transit District (RT) provides local bus and light rail service within the City and portions of the Sacramento region, covering nearly 400 square miles of service area. As of 2019, RT's transit vehicle fleet included 197 compressed natural gas-powered buses, 27 shuttle vans, and 12 zero emission electric buses. RT operates 65 bus routes, including 30 regular all-day routes, 34 peak-period-only routes, 1 neighborhood ride route, and Community Bus Service routes. Three of the Community Buses, referred to as Neighborhood Ride services, deviate from published routes on demand. Fixed-route bus routes reach 3,100 bus stops. Eight bus-only transfer centers accommodate transfers between routes, while 32 transit centers facilitate transfers between bus routes and intermodal transfers to and from RT Light Rail lines. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-27)

RT also operates a 43-mile light rail transit system to provide high-frequency, high-capacity transit service. This consists of three lines with 52 stops and 97 light rail vehicles. Figure 3-5 of the General Plan Background Report identifies the routing and station locations for RT's Blue, Gold, and Green light rail lines, park-and-ride lots, and other roadways served by RT's bus routes. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-28)

RT's annual ridership in fiscal year 2018 was approximately 21 million passengers. In 2019, weekday light rail ridership averaged about 37,000 and weekday bus ridership averaged approximately 36,000 passengers per day. This represents a 5.3% decrease from fiscal year 2017, with a 9.3% decrease in both light rail and bus ridership. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-29)

Approved in 2019, the SacRT Forward New Network plan supports major changes to the Sacramento bus network, including changes in service routes and frequency. RT's planned improvements include: 1) Design and construct Dos Rios light rail station located on North 12th Street; 2) Replace aging light rail vehicle fleet with new, low-floor light rail vehicles; 3) Complete double tracking of the Fold Line between the Sunrise and Historic Folsom stations. This project will enable 15-minute service between historic Folsom and downtown Sacramento; 4) Double tracking of Green Line from Sacramento Valley Station to North B Street, with a new infill station located on 7th Street; 5) The planned Green Line to the Airport project, spanning 13 miles and with a total of 13 stations, would extend service from Downtown through Natomas to the Sacramento International Airport; and 6) Develop Zero Emission Vehicle (ZEV) Conversion Plan with the goal to convert the entire fleet to zero-emission vehicles. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-29)

Park-and-Ride Lots

Park-and-ride lots enable commuters to access the regional public transit system by automobile, or to form carpools with other drivers. As of 2019, Sacramento RT operated 22 park-and-ride lots with a total of 10,114 parking stalls. In March 2019, RT eliminated parking charges at all park-and-ride lots. Caltrans operates additional park-and-ride lots at locations throughout the region, including along SR 99 at Sheldon Road, Twin Cities Road, Elkhorn Boulevard, Calvine Road, and at the Caltrans maintenance yard in Elk Grove. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-33)

Transportation Demand Management

Transportation Demand Management (TDM) is implemented by the City to Sacramento and includes programs intended to reduce traffic congestion, optimize transportation system usage, and improve air quality. These measures can be achieved by offering a combination of incentives and market-based strategies to increase employee and resident use of alternative travel modes. TDM includes different approaches for small versus large developments/employers. The Transportation Systems Management (TSM) program requires developers and employers with 25 to 99 employees to achieve a 35 percent trip reduction, consistent with City goals. It requires employers to post information about alternative commute modes, such as public transportation and ridesharing, and to coordinate with relevant transportation agencies to maintain current commute information. Larger projects and employers with over 100 employees

are required to produce a Transportation Management Plan (TMP). The TMP is approved and monitored by the City and may include measures such as providing carpool/vanpool spaces; parking fees; transit facilities or subsidies; a shuttle bus program; a vanpool program; showers and lockers for bicyclists; or other means of promoting alternative modes, as agreed upon by the City. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-53)

Transportation Safety

In order to address transportation safety, the City adopted the Vision Zero Action Plan in 2018. Its primary goal is to eliminate traffic fatalities and serious injuries by the year 2027. The Plan identifies a “high injury network” that consists of roadway corridors with the highest levels of fatal and serious crashes, which should be the focus of future safety improvements. It also identifies proven safety countermeasures to address factors contributing to traffic deaths and serious injuries through education, engineering, enforcement, and evaluation. Adoption of the Vision Zero Action Plan has resulted in the City’s implementation of school zone speed reductions, completion of Vision Zero school safety studies at 20 schools, and initiation of the Vision Zero top 5 high injury corridor study. This Plan illustrates the City’s commitment to create safer streets for pedestrians, bicyclists, and motorists. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-55)

Emergency Service Routes

The City’s Fire and Public Works departments work collaboratively to determine emergency response routes for projects that may impact emergency response travel times. Much of their focus is given to traffic calming measures. This ensures that facilities like speed humps are not constructed on streets identified as emergency response routes. However, speed humps (humps with cut-outs for wheel base of larger vehicles) are sometimes approved along emergency response routes on a case-by-case basis. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-56)

Neighborhood Traffic Issues

The City’s Neighborhood Traffic Management Program (NTMP) is actively implemented to promote safety on local streets and improve the quality of life in the City’s neighborhoods. The objectives of the NTMP are to improve driver awareness and behavior, reduce traffic volumes and travel speeds, and enhance neighborhood environments. The NTMP creates a partnership between the neighborhood residents and City Public Works staff. Residents provide insight into the challenges and issues facing their neighborhood roadways and City staff present a variety of traffic calming solutions to meet neighborhood needs. Traffic calming plans developed through the NTMP are voted on by the residents of the neighborhood prior to implementation. The NTMP has three major components:

- **Education:** City staff informs neighbors of traffic calming tools available to address specific concerns, such as travel speeds, cut-through traffic, etc.
- **Engineering:** A traffic calming plan is developed and implemented based on neighborhood input and engineering principles.
- **Enforcement:** Improvements will be enforced by police and parking services.

The City has implemented traffic calming plans for 109 neighborhoods as part of the NTMP, and as of 2012, an additional 13 neighborhoods are in the process. The NTMP’s goal is to serve eight (8) to twelve (12) neighborhoods per year with one or more neighborhoods being selected from each Council District. (*City of Sacramento, General Plan Background Report (March 2015)*, pp. 3-35)

Bicycle Master Plan

The City’s adopted Bicycle Master Plan sets forth bicycle related investments, policies, programs and strategies to establish a complete bicycle system. The Plan identifies existing and planned bicycle routes, lanes, separated bikeways, and shared-use paths in the City, presents appropriate design features of bikeways, and promotes bicycle safety and education programs. Its primary purpose is to identify the recreational and commuter needs of bicyclists and to promote bicycling as an alternative transportation mode. The primary goal of the bikeway improvements included in the Bicycle Master Plan is to increase bicycle ridership for work and non-work trips. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-36) The Bicycle Master Plan would be applied to improvements in the SOI expansion area at such time that the ASI project area is incorporated into the City.

Pedestrian Facilities

The City has implemented community programs and adopted guidelines over the past several years to enhance the pedestrian environment within Sacramento. The City's adopted Neighborhood Traffic Management Program, Pedestrian Master Plan, and Traffic Calming Guidelines collectively provide guidance to improve neighborhood livability by slowing vehicles to create a desirable pedestrian environment, to establish an implementation program for pedestrian improvement projects, and to provide LOS criteria for pedestrian facilities and design standards. These plans are used by City staff when evaluating applications for new development projects to ensure that current standards are implemented. Additionally, the City's adopted Pedestrian Safety Guidelines provide design guidance for pedestrian facilities' best practices that are intended to enhance existing facilities and to ensure that new developments provide a pedestrian friendly environment. Furthermore, the City's adopted Pedestrian Friendly Street Standards provide for narrower vehicle travel lanes and enhanced sidewalks to promote pedestrian travel within the City. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-39)

6.3.B Plans and Regulatory Requirements

Federal Requirements

There are a significant number of Federal laws and regulations related to goods movement, homeland security, street maintenance, traffic safety, and transportation funding. The following legislation established the framework for transportation planning at the federal level: Fixing America's Surface Transportation Act (FAST Act) (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 3-22)

State Requirements

Caltrans' adopted 2040 California Transportation Plan (CTP) provides broad system concepts, strategies, and performance measures for all transportation modes for the State's facilities. Caltrans prepares Route Concept Reports that identify the long-range improvements for specific State highway corridors and establish the concepts/desired level of service (LOS) for specific segments. Long-range improvements are identified to improve existing facilities up to the design concept expected to adequately serve 20-year traffic forecasts. Nearly all freeway segments the City of Sacramento have a concept LOS E or F, with the exception of I-5 west of the I-5/SR 99 interchange, which has LOS D or E.

Ongoing transportation planning for the City of Sacramento is influenced by legislation adopted by the State of California and executive orders issued by the Office of the Governor. These include:

- **Executive Order S-03-05 (2005)**: Establishes State agency climate action team, and directs greenhouse gas (GHG) emission reductions as a priority.
- **AB 32 (2006)**: Requires that the California Air Resources Board (CARB) identify sector-specific measures to reduce GHG emissions.
- **SB 97 (2007)**: Requires that the Office of Planning & Research (OPR) adopt California Environmental Quality Act (CEQA) GHG/climate change guidelines.
- **SB 375 (2008)**: Requires that MPOs develop sustainable community strategies to achieve AB 32 GHG reduction targets established through the regional targets advisory committee and provides potential CEQA relief for select development projects.
- **AB 1358 (2008)**: Requires that the legislative body of a City or County, upon revision of the circulation element of their General Plan (after January 1, 2011), identify how the jurisdiction will provide for the routine accommodation of all users of the roadway (i.e., complete streets) including motorists, pedestrians, bicyclists, individuals with disabilities, seniors, and users of public transportation.
- **SB 226 (2011)**: Requires that the State's OPR modify the CEQA Guidelines to set forth a streamlined review process for infill projects.
- **SB 743 (2013, 2018)**: Changed the previous practice of evaluating traffic transportation impacts used road congestion and delay or level of service (LOS) and requires the amount of driving and length of trips, measured as vehicle miles traveled (VMT), be used to assess transportation impacts on the environment for CEQA review.

(City of Sacramento, *General Plan Background Report (November 2020)*, pp. 3-24)

Regional Requirements

The Sacramento Area Council of Governments (SACOG) is responsible for the preparation of, and updates to, the Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS) and the corresponding Metropolitan Transportation Improvement Program (MTIP). The MTP/SCS provides a 20-year transportation vision and corresponding list of projects. The MTP/SCS is required to be updated every four years, and the current 2020 MTP/SCS was adopted in November 2019. The MTIP identifies short-term projects (seven-year horizon) in more detail. SACOG is also responsible for the oversight and distribution of most Federal and State transportation funding, and develops the air quality plans and compliance measures, which incorporate mobile (vehicular) pollution sources. The Sacramento Transportation Authority is responsible for administering the original Measure A half-cent sales tax and its recent extension. (City of Sacramento, *General Plan Background Report (November 2020)*, pp. 3-24 to 3-25)

Local Requirements

Sacramento General Plan. The City’s 2035 General Plan contains policies and implementation measures relevant to circulation and roadways. Applicable policies are summarized below:

- **Policy M 1.1.1 Right-of-Ways** that requires the City to preserve and manage rights-of-way consistent with the Circulation Diagram, Street Design Standards, the goal to provide Complete Streets, and modal priorities for specified street segments and intersections.
- **Policy M 1.1.2 Transportation System** that requires the City to manage the travel system to ensure safe operating conditions.
- **Policy M 1.1.4 Facilities and Infrastructure** that requires the City to effectively operate and maintain transportation facilities and infrastructure to preserve the system’s quality.
- **Policy M 1.2.1 Multimodal Choices** that requires the City to develop an integrated, multimodal transportation system that improves the attractiveness of walking, bicycling, and riding transit to increase travel choices, resulting in reduced air pollution and greenhouse gas emissions.
- **Policy M 1.2.2 Level of Service (LOS) Standard** that requires the City to implement a flexible context sensitive LOS standard, and will measure traffic operations against established vehicle LOS thresholds, and will strive to operate the roadway network at LOS D or better for vehicles during typical weekday conditions, with limited specified exceptions.
- **Policy M 1.2.3 Transportation Evaluation** that requires the City to evaluate discretionary projects for potential impacts to traffic operations, traffic safety, transit service, bicycle facilities, and pedestrian facilities, consistent with the City’s Traffic Study Guidelines.
- **Policy M 1.3.1 Grid Network** that requires the City to promote efficient travel for all modes and require private developments to provide internal complete streets that connect to the existing roadway system.
- **Policy M 1.3.2 Eliminate Gaps** that requires the City to eliminate “gaps” in roadways, bikeways, and pedestrian networks.
- **Policy M 1.3.3 Improve Transit Access** that requires the City to work with Sacramento Regional Transit District (RT) in addressing identified gaps in public transit networks and appropriately locate passenger facilities and stations, pedestrian walkways and bicycle access to transit stations and stops, and public rights of way as necessary for transit facilities.
- **Policy M 1.3.4 Barrier Removal for Accessibility** that requires the City to remove barriers, where feasible, to allow people of all abilities to move freely and efficiently throughout the city.
- **Policy M 2.1.1 Pedestrian Master Plan** that requires the City to maintain and implement a Pedestrian Master Plan that carries out the goals and policies of the General Plan by requiring that new development be consistent with its applicable provisions.
- **Policy M 2.1.2 Sidewalk Design** that directs the City to require that sidewalks be developed at sufficient width to accommodate all users.
- **Policy M 2.1.3 Streetscape Design** that directs the City to require that pedestrian-oriented streets be designed to provide a pleasant environment for walking and other desirable uses of public space.

- **Policy M 2.1.4 Cohesive and Continuous Network** that requires the City to develop a pedestrian network of public sidewalks, street crossings, and other pedestrian paths that makes walking a convenient and safe travel mode.
- **Policy M 2.1.7 Safe Pedestrian Crossings** that requires the City to improve pedestrian safety by providing safe pedestrian crossings at appropriate intersections and mid-block crossings.
- **Policy M 2.1.9 Safe Sidewalks** that directs the City to require that pedestrian facilities be constructed in compliance with adopted design standards.
- **Policy M 4.2.2 Pedestrian and Bicycle-Friendly Streets** that indicates that, in areas with high levels of pedestrian activity, the City is to ensure that all street projects support pedestrian and bicycle travel.
- **Policy M 5.1.1 Bicycle Master Plan** that requires the City to maintain and implement a Bicycle Master Plan that carries out the goals and policies of the General Plan, which is to be applied to all new development.
- **Policy M 5.1.2 Appropriate Bikeway Facilities** that requires the City to provide bikeway facilities that are appropriate to the street classifications and type, number of lanes, traffic volume, and speed on all rights-of-way.
- **Policy M 5.1.3 Continuous Bikeway Network** that requires the City to provide a continuous bikeway network consisting of bike-friendly facilities connecting residential neighborhoods with key destinations and activity centers.
- **Policy M 5.1.6 Connections between New Development and Bicycle Facilities** that directs the City to require that new development provide connections to, and not interfere with, existing and proposed bicycle facilities.
- **Policy M 5.1.8 Connections between New Development and Bikeways** that requires the City to ensure that new commercial and residential development projects construct bikeway facilities identified in the Bicycle Master Plan that have a direct nexus with the project.

6.3.C Study Area Level of Service Improvements

The City's 2022-2027 Capital Improvement Program (CIP) includes a Transportation section that addresses circulation and roadways in the City. It is a five-year plan that is updated regularly, and its implementation relies heavily on the use of available local funds to leverage State and Federal funds, combined with road maintenance and repair funding sources derived from SB1. The Transportation Program places priority on completing projects that have secured Federal funding with the key objectives for maintenance, safety, and mobility of the overall transportation network.

The CIP's Transportation Program is divided into several sub-programs to address different areas of need. These include sections for Active Transportation (pedestrian, bikeway, lighting, and streetscape improvements); Bridges (replacement and rehabilitation); Maintenance (roadway and bikeway rehabilitation, including integration of complete streets and safety improvements); Major Transportation Improvements (major roadway construction); Parking (parking facility maintenance and upgrades); Public Rights-of-Way Accessibility (improvements to ensure full accessibility); and Traffic Operations and Safety (safety improvements, a Traffic Operations Center, traffic calming, active transportation safety, and major street light replacement). (*City of Sacramento, Capital Improvement Program 2022-2027, June 2022, pp. H-2*)

The ASI project site plan includes a network of roadways that provide access to all proposed commercial and industrial parcels, connections to existing roadways including Power Line Road, Bayou Way, and Metro Air Parkway, which provides access to I-5. Roadways and associated frontage improvements will be constructed as the project builds out, consistent with the site plan. Roadways have been designed consistent with the City of Sacramento's adopted design standards and include the appropriate travel lanes to support traffic associated with project buildout. Additionally, on-street bike lanes and street-separated sidewalks for pedestrians are included in the ASI's roadway design and will be constructed in accordance with the City's requirements.

6.3.D Determinations

Based on the information above, the following determinations can be made:

- The City maintains a roadway network consisting of arterials, collectors, and local streets and strives to provide a base level of service standards of LOS D, except for other specifically identified roadway segments where LOS E and/or E is the minimum standard.
- A wide range of transit services are provided in Sacramento, which includes public bus service, light rail transit, commercial bus service, and interregional and interstate passenger train service. Park-and-ride facilities are also located throughout the City to facilitate ridesharing, carpooling, and access to regional transit.
- The City is continually implementing its adopted General Plan Mobility Element, including its Bicycle Master Plan and a Pedestrian Master Plan, to ensure that roadway construction meets City design standards and that alternative travel modes are provided throughout the City.
- Implementation of the ASI project will be subject to all applicable regulatory requirements for compliance with State mandates and City General Plan policies.
- The Airport South Industrial (ASI) project has been designed to meet City standards for roadway design, including providing connections to existing Federal and State highways and local streets. This includes automobile lanes, bikeways, and pedestrian facilities consistent with City standards.

6.4 ANIMAL CARE

6.4.A Existing Levels of Service and Improvements

Animal Care services for the County lands surrounding the project site are currently provided by Sacramento County Animal Care and Regulation, located at 3839 Bradshaw Road, one mile south of Highway 50. For the areas within the City limits, the City of Sacramento operates from the Front Street Animal Shelter, located at Front Street and Broadway. The City of Sacramento Animal Care services include low-cost vaccination clinics, spay and neuter clinics, veterinary care, a pet food pantry, euthanasia services, pet licensing, adoption, boarding, lost and found pet services, and informative resources. The Front Street shelter has a full staff of veterinarians, service administrators, field operators, and staff who assist with animal detention, shelter, care, and placement of stray and licensed pets. Animal care also coordinates with other agencies in response to public safety, emergency, and law enforcement needs regarding animals. Animal Care services are paid for by the City's General Fund, supplemented by donations and fundraising from animal care groups. (*City of Sacramento Animal Care Services, 2022*)

6.4.B Plans and Regulatory Requirements

City Municipal Code. Regulations and standards regarding animal care are set forth in the City's Municipal Code Section 9.44. Enforcement is handled by the Animal Care division of the Public Works Department with support from police and other County departments regarding issues of public health and safety related to dangerous or stray animals.

6.4.C Study Area Level of Service Improvements

The Humane Society of the United States released a Professional Animal Services Construction Report in 2001, which stated that, generally, animal care facilities should have capacity to care for a quantity of animals equivalent to 5-7% of a community's population. (*The Humane Society of the United States Professional Animal Services Construction Report, 2021*) The report also found that although animal services in Sacramento have historically had issues with staffing, accommodating growing areas of the city has not been a problem. Funding allocations to support expansion of services must be decided by voters in local elections and is typically in response to population increase.

6.4.D Determinations

Based on the information above, the following determination can be made:

- The ASI project consists of industrial and commercial development that will not impact capacity or demand for animal care services in the City of Sacramento. No improvements to animal care in the City will be necessary as a result of the ASI project.

6.5 CODE COMPLIANCE

6.5.A Existing Levels of Service and Improvements

The Sacramento Code Compliance Division of the Community Development Department provides code enforcement services the City's neighborhoods, businesses, entertainment, and housing. This Division's overarching goal is to preserve and enhance public health, safety, and welfare by addressing issues of blight and enforcing City and State codes.

The following services fall under the jurisdiction of the Code Compliance Division:

- **Business Compliance.** Works with City departments to issue permits and licenses and enforces codes and ordinances, including tobacco retailer licenses, entertainment permits, taxi permits, and mobile food permits.
- **Housing and Dangerous Buildings.** Enforces City and State codes relating to residential and commercial structures and addresses pests and mechanical noise in conjunction with the Environmental Health section.
- **Rental Housing Inspection Program.** Works with rental property owners to register their homes and to verify compliance with all codes applicable to health and safety. This program also addresses substandard rental properties and preserves the quality of neighborhoods and housing stock.
- **Anti-Graffiti Program.** Works with the Police Department to carry out efforts to keep neighborhoods clear of graffiti and implements abatement programs, educational outreach, and community involvement programs.
- **Vacant Lot Program.** Ensures that vacant lots are maintained by property owners to prevent public health and safety issues due to blight or fires caused by neglect.

(City of Sacramento Code Compliance, <https://www.cityofsacramento.org/Community-Development/Code-Compliance>, 2022)

6.5.B Plans and Regulatory Requirements

Local Requirements

Municipal Code. Code Enforcement upholds State and Local regulations, including those set forth in the City of Sacramento Municipal Code and General Plan. City ordinances which are directly related to and upheld through Code Enforcement programs include, but are not limited to:

- **Vacant Building Ordinance (Article XV of Chapter 8.100).** Neglected properties can be considered a public nuisance and imposed fines after 30 days if any of the following conditions are present: 1) Exterior issues which don't comply with current building code; 2) Boarded windows or doors; 3) Structures and properties which are neglected or with debris, broken windows, or peeling paint; 4) Structures which attract crime or transients; and 5) Overgrown lawns or no yard care.
- **Rental Housing Inspection Ordinance (Chapter 8.120).** Enforces building codes of rental properties to ensure quality and safety of rental properties throughout the city. Requires registration of the property, inspection, and abatement procedures, where necessary.
- **Graffiti Abatement Ordinance (Chapter 8.24).** Outlines procedures for graffiti removal to preserve property values, prevent crime, and decrease blighted areas throughout the City.

City of Sacramento General Plan. Applicable policies in the City's General Plan that are applicable to Code Enforcement actions include:

- **Policy PHS 6.1.1 Facilities, Services, and Staffing** that requires the City to provide facilities and staffing to maintain an aggressive and visible code enforcement program.
- **Policy PHS 6.1.2 Code Requirements** that requires the City to enforce code requirements to ensure that existing housing meets health and safety standards.
- **Policy PHS 6.1.3 Public Nuisance** that directs the City to require properties with identified public nuisance violations to eliminate or remove the conditions.
- **Policy PHS 6.1.4 Abandoned Vehicles** that requires the City to require removal of abandoned vehicles.
- **Policy PHS 6.1.5 Graffiti** that directs the City to require removal of graffiti that is in public view.
- **Policy PHS 6.1.6 Deterioration, Blight, and Deferred Maintenance** that directs the City to require that housing units are maintained to ensure a safe and healthy living environment, preventing blight and deterioration resulting from deferred maintenance.
- **Policy PHS 6.1.7 Substandard and Dangerous Buildings** that directs the City to require all building that are identified as substandard or dangerous be either repaired or demolished.
- **Policy PHS 6.1.8 Residential Rental Inspection** that directs the City to require systematic inspection of all residential rental property.
- **Policy PHS 6.1.9 Building Inspection** that requires the City to enforce code requirements by inspecting buildings requiring a fire code operational use permit and mandated for inspection by the California Health and Safety Code.
- **Policy PHS 6.1.10 Communication and Education** that requires the City to work with residents, businesses, and community organizations in conducting public outreach and educational programs to promote voluntary compliance with city ordinances.
- **Policy PHS 6.1.11 Safe and Fair Practices** that requires the City to maintain safe and fair business operations and ensure the health and safety of the general public through enforcement of State and local health and safety statutes and codes.

(City of Sacramento, 2035 General Plan, March 3, 2015, pp. 2-305 & 2-306)

6.5.C Study Area Level of Service Improvements

Code enforcement services are paid for by the City's General Fund. Development fees and property taxes generated by the ASI project will contribute to the General Fund, a portion of which is allocated to the Community Development department and the Code Enforcement Division. Development of the ASI project is not anticipated to significantly impact the Code Enforcement Division's service levels or require expansion of services or facilities, as the division predominantly carries out tasks related to degradation and blight of existing structures.

6.5.D Determinations

Based on the information above, the following determination can be made:

- The ASI project's commercial and industrial development will meet current Building Code standards and this type of development does not typically create issues of blight, structural hazard, or fire hazard due to overgrown plant matter.
- The ASI project will contribute funds to the City's Code Enforcement division, but current resources are not anticipated to be affected. The impact of the ASI project to the City's Code Enforcement division is expected to be minimal.

6.6 LAW ENFORCEMENT

6.6.A Existing Levels of Service and Improvements

The Sacramento Police Department (SPD) provides law enforcement services for the City. In 2019, the SPD was staffed with approximately 686 sworn personnel, 29 academy recruits, 291 professional staff, and 144 non-career staff. For Fiscal Year 2019/2020, the SPD was authorized to staff 747 sworn positions

and 323.46 professional staff positions. Police Headquarters is located in the Public Safety Center at 5770 Freeport Boulevard in Sacramento and is supported by several substations throughout the City. These include the William J. Kinney Police Facility serving the North Area from 3550 Marysville Boulevard, the Joseph E. Rooney Police Facility serving the South Area from 5303 Franklin Boulevard, and the Central Command Richards Police Facility located at 300 Richards Boulevard.

The North Area Substation provides police services to the northern portion of the City, from the American River on the south to the City limits on the west, north, and east. The South Area Substation provides police protection services to the southern portion of the City, from Highway 50 on the north to the City limits on the west, south, and east. Central Command provides police response to three main beats in the central portion of the City, bounded by the American River to the north, Highway 50 on the south, the Sacramento River on the west, and the city limits on the east. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 5-2)

6.6.B Plans and Regulatory Requirements

Local Requirements

Sacramento City Code. Chapter 2.20 of the Sacramento City Code sets forth the guidelines for SPD and includes regulations regarding the powers and duties of the Chief of Police and the Police Department. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 5-11)

Sacramento General Plan. The City's 2035 General Plan contains policies and implementation measures relevant to law enforcement services. Applicable policies are summarized below:

- **Policy PHS 1.1.2 Response Time Standards** that requires the City to strive to achieve and maintain optimal response times for all call priority levels to provide adequate police services for the safety of all city residents and visitors.
- **Policy PHS 1.1.3 Staffing Standards** that requires the City to maintain optimum staffing levels for both sworn police officers and civilian support staff in order to provide quality police services to the community.
- **Policy PHS 1.1.4 Timing of Services** that requires the City to ensure that development of police facilities and delivery of services keeps pace with development and growth in the city.
- **Policy PHS 1.1.6 Co-Location of Facilities** that requires the City to seek to co-locate police facilities with other City facilities, such as fire stations, to promote efficient use of space and provision of police protection services within dense, urban portions of the city.
- **Policy PHS 1.1.7 Development Review** that requires the City to continue to include the Police Department in the review of development proposals to ensure that projects adequately address crime and safety, and promote the implementation of Crime Prevention through Environmental Design principles.
- **Policy PHS 1.1.8 Development Fees for Facilities and Services** that directs the City to require development projects to contribute fees for police facilities.

The Sacramento Police Department does not have an adopted officer-to-resident ratio. The Department uses GIS data, call and crime frequency information, and available personnel to rebalance its deployment on an annual basis to meet the changing demands of the City. The Department maintains an unofficial goal of 2.0 to 2.5 sworn police officers per 1,000 residents and 1 civilian support staff per 2 sworn officers. (*City of Sacramento, General Plan Background Report (March 2015)*, pp. 5-5)

6.6.C Study Area Level of Service Improvements

Upon approval of the SOI expansion area, the ASI project would be served by the Sacramento Police Department (SPD). The nearest police substation is located in Central Command Richards Police Facility at 300 Richards Boulevard in Sacramento. The SPD has identified the need to remodel existing facilities and construct new facilities, but as of 2019, did not have secured funding to do so. As the City grows in the south and north areas and traffic congestion correspondingly increases, SPD's goal is to continue decentralizing in order to maintain adequate response times to areas near the City's borders, particularly in the north and south areas. As such, the SPD has identified the need for additional facilities in the

downtown core, the Meadowview/Valley Hi/Delta Shores area south of downtown, and the Natomas area north of downtown. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 5-7)

Development of the proposed project would create an increase in calls for police services, however the proposed project does not include residential uses that would increase the City's resident population. Therefore, the impact to police services resulting from increased calls is anticipated to be minimal.

The City Police Department has within its division a number of crime prevention and community outreach programs. In addition to standard police protection, the Police Department works closely with the City's Development Services to review development plans for consistency with Crime Prevention Through Environmental Design principles.

6.6.D Determinations

Based on the information above, the following determinations can be made:

- Implementation of the ASI project will be subject to all applicable City regulatory requirements. This includes compliance with the laws set forth in Chapter 2.20 of the Sacramento City Code and with applicable Police Services policies contained in the City's General Plan.
- Development of the ASI project site will be subject to Police Department review in order to implement appropriate Crime Prevention through Environmental Design principles.
- Development projects in the ASI area will be required to pay applicable development impact fees for the maintenance, improvement, and expansion of police facilities.
- While development of the proposed project would create an increase in calls for police services, because the ASI project does not include residential uses that would increase the City's resident population, the impact to calls for police services is anticipated to be minimal.

6.7 FIRE PROTECTION

6.7.A Existing Levels of Service and Improvements

The Sacramento Fire Department (SFD) provides fire protection services to the entire City of Sacramento, plus adjacent areas in unincorporated Sacramento County. SFD's service area consists of approximately 99.2 square miles within the City limits and 47.1 square miles in Sacramento County, which include two contract areas for the Pacific Fruitridge and Natomas Fire Protection Districts. SFD is a full-service fire department, with the responsibility for responding to and mitigating incidents involving fires, medical emergencies, hazardous materials, technical and water rescue within its service area. The Department also provides a full range of support services including fire prevention, public education, fire investigation, and domestic preparedness planning and response. It also participates in an automatic aid agreement with neighboring fire jurisdictions, as well as State and Federal agencies. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 5-11) As of 2017, SFD had 678 budgeted personnel positions that respond to approximately 90,000 calls each year and provide service to approximately 480,000 residents and over 20,000 businesses in the City. (*City of Sacramento, Fire Department Annual Report, 2017*, p. 4)

SFD is organized into the following divisions:

- **Fire Administrative Services** that is responsible for departmental support of budget, revenues, accounts payable, procurement, contracts, council reports and grants, and various personnel services.
- **Fire/Emergency Medical Services** that responds to fires, rescues, hazardous materials incidents, wildland fires, and other emergencies and medical services.
- **Office of the Chief** that is responsible for developing and providing the Department's overall direction.
- **Technical Services** that provides essential support functions to all divisions, including equipment acquisition and repair, information technology, facility maintenance and repair coordination, and fleet maintenance. This division also enforces fire codes and ordinances, conducts plan reviews and construction inspections, and investigates fires.

- **Training/Professional Standards** that is responsible for essential fire recruit training including in-service, continuing education, and outreach/recruitment.

(City of Sacramento, FY2022/23 Approved Budget, pp. 216-217)

SFD operates its headquarters from the Public Safety Center, located at 5770 Freeport Boulevard in Sacramento. This facility is shared with the Sacramento Police Department's headquarters. The Department operates 24 fire stations, which are strategically located throughout the City. Although each fire station operates within a specific response district encompassing the immediate geographical area around the station, all of the Sacramento County fire agencies (Sacramento Fire Department, Sacramento Metro Fire District, Sacramento International Airport Fire, Cosumnes Fire District, and the Folsom Fire Department) share an automatic aid agreement that allows response from the closest fire unit regardless of jurisdiction. The nearest fire station to the ASI project site is Fire Station #43, which is located at 4201 El Centro Road in unincorporated Sacramento County, approximately 2.5 miles southeast of the proposed SOI expansion area.

All SFD Engine companies, except one, are staffed with four personnel consisting of a Company Officer (Captain), Engineer, and two Firefighters. One Engine Company is staffed with three personnel (a Captain, an Engineer, and one Firefighter). This engine is located at fire station #3, located in the rural portion of the contracted Natomas Fire Protection District. Truck companies and one Rescue company are also staffed with four personnel consisting of a Company Officer (Captain), Engineer, and two Firefighters. Ambulances are staffed with two Firefighter/Paramedics or a Firefighter/Paramedic and Firefighter/EMT combination. When the department is fully staffed, the daily operational staff consists of 173 personnel on duty for fire and EMS first responder emergencies and 34 of these personnel are on duty for emergency ambulance transportation daily. *(City of Sacramento, General Plan Background Report (November 2020), pp. 5-11 to 5-12)*

Metro Air Park is also scheduled to provide land and facilities for a new fire station near the ASI project site. The 10,000 sq. ft. fire station site is located approximately 1.4 miles north of the ASI project site. The Fire Station will be operated by Sacramento Fire Department. Metro Air Park will dedicate the site and provide a building at a cost of \$7,140,000. Construction of this facility is planned at such time that Metro Air Park reaches 30% buildout, a threshold that is rapidly approaching. *(Metro Air Park Public Facilities Financing Plan, March 2, 2004) and (Stantec, Metro Air Park Public Facilities Master Plan, March 2, 2004)*

6.7.B Plans and Regulatory Requirements

Federal Requirements

U.S. Occupational Safety and Health Administration. Passed in 1970, the Occupational Safety and Health Act created the Occupational Safety and Health Administration (OSHA) under the US Department of Labor. OSHA sets and enforces workplace standards and provides training, outreach, education, and assistance. The Federal and State Occupational Health and Safety Regulations mandate that firefighters cannot enter a burning structure that is past the small fire stage without four firefighters, with one team of two inside and the other team of two outside. The only exception to this rule is when there is a known life in danger. *(City of Sacramento, General Plan Background Report (November 2020), pp. 5-23)*

State Requirements

California Occupational Safety and Health Administration. Pursuant to Title 8, Sections 1270 "Fire Prevention" and 6773 "Fire Protection and Fire Equipment" of the California Code of Regulations, the California Occupational Safety and Health Administration (Cal OSHA) establishes the standards for fire suppression and emergency medical services. These standards address elements such as combustible materials handling, fire hose sizing, compressed air usage, access road requirements, and firefighting and emergency medical equipment maintenance and testing.

Uniform Fire Code. This Code contains regulations relating to construction, maintenance, and use of buildings, including fire department access, fire hydrants, automatic sprinkler systems, fire alarm systems, fire and explosion hazards safety, hazardous materials storage and use, provisions intended to protect and assist fire responders, industrial processes, and many other general and specialized fire-safety requirements for new and existing buildings and the surrounding premises.

California Health and Safety Code. Sections 13000 et seq. of the California Health and Safety Code establish Statewide fire regulations, addressing building standards, fire protection and notification systems, fire protection devices such as extinguishers and smoke alarms, high-rise building and childcare facility standards, and fire suppression training.

Insurance Services Office (ISO). The ISO provides rating and statistical information for the insurance industry for all types of industries, including fire service, on risk management and also includes recommendations for the spacing of fire engine stations and ladder trucks relative to response times.

(City of Sacramento, *General Plan Background Report (November 2020)*, pp. 5-24)

Local Requirements

Sacramento City Code. Chapter 2.24 of the Sacramento City Code provides the Sacramento Fire Department with the duties and powers to enforce various fire protection regulations, including rates and fees for services. Additionally, Chapter 15.36 provides regulations for enforcement of the fire code, control of emergency scenes, permits, general provisions for safety, fire department access, equipment, and protection systems, and other associated standards. (City of Sacramento, *General Plan Background Report (March 2015)*, pp. 5-27)

Sacramento General Plan. The City's 2035 General Plan contains policies and implementation measures relevant to fire protection services. Applicable policies are summarized below:

- **Policy PHS 2.1.2: Response Time Standards** that requires the City to strive to maintain emergency response times that provide optimal fire protection and emergency medical services to the community.
- **Policy PHS 2.1.3: Staffing Standards** that requires the City to maintain optimum staffing levels for sworn, civilian, and support staff, in order to provide quality fire protection and emergency medical services to the community.
- **Policy PHS 2.1.4: Response Units and Facilities** that requires the City to provide additional response units, staffing, and related capital improvements, including constructing new fire stations, as necessary, in areas where a fire company experiences call volumes exceeding 3,500 in a year to prevent compromising emergency response and ensure optimum service to the community.
- **Policy PHS 2.1.5: Timing of Services** that requires the City to ensure that the development of fire facilities and delivery of services keeps pace with development and growth of the city.
- **Policy PHS 2.1.11: Development Fees for Facilities and Services** that directs the City to require development projects to contribute fees for fire protection services and facilities.
- **Policy PHS 2.2.2: Development Review** that requires the City to continue to include the Fire Department in the review of development proposals to ensure projects adequately address safe design and on-site fire protection and comply with applicable fire and building codes.
- **Policy PHS 2.2.4: Water Supply for Fire Suppression** that requires the City to ensure that adequate water supplies are available for fire-suppression throughout the city, and shall require development to construct all necessary fire suppression infrastructure and equipment.

6.7.C Study Area Level of Service Improvements

The SFD currently provides fire protection and emergency response services to the ASI SOI expansion area. The ASI project would be primarily served by Fire Station #43, which is the nearest station to the project site. It is located approximately 2.5 miles to the southeast of the ASI project site at 4201 El Centro Road in unincorporated Sacramento County. SFD provides fire protection services to an unincorporated area adjacent to the City, including the ASI project area, through a contract with Natomas Fire Protection District. This contract includes provisions to provide emergency, medical, rescue and fire protection services.

As of 2017, SFD's staffing included 589 full-time equivalent employees who responded to approximately 88,242 calls. The approved FY2022/23 FY Budget increased staffing to 729 positions. SFD maintains a goal to have its first responding company, which provides for fire suppression and paramedic services, arrive within four minutes. Additionally, the SFD maintains automatic aid agreements with all its neighboring agencies including the Sacramento Metropolitan Fire District and Cosumnes Fire. Under these automatic aid agreements, all related emergency calls are routed through a central dispatch center and the nearest

apparatus is dispatched to emergency incidents, regardless of political jurisdiction. (*City of Sacramento, FY2022/23 Approved Budget, p. 300*) and (*Ascent Environmental, Panhandle Annexation and PUD Plan for Services, June 2017, p. 24*)

As required for mandatory compliance with the Uniform Fire Code and Sacramento City Code Chapter 15.36, development of the ASI project site would be required to comply with regulations relating to construction, maintenance, and use of buildings. This would include mandatory elements for fire prevention and deterrence related to fire department access, fire hydrants, automatic sprinkler systems, fire alarm systems, fire and explosion hazards safety, hazardous materials storage and use, and other fire-safety requirements. (*Ascent Environmental, Panhandle Annexation and PUD Plan for Services, June 2017, p. 24*)

Development would also be required to comply with State and local fire regulations, as outlined in the California Health and Safety Code and the City Code. Compliance with these regulations would ensure that fire and other emergency service providers maintain access to all properties within the ASI project area in the event of a fire emergency. (*Ascent Environmental, Panhandle Annexation and PUD Plan for Services, June 2017, p. 24*)

6.7.D Determinations

Based on the information above, the following determinations can be made:

- The Sacramento Fire Department provides fire protection services to the entire City and some small unincorporated areas within the County that include Pacific-Fruitridge and Natomas Fire Protection Districts. This service area includes the proposed ASI SOI expansion area.
- Fire Station #43 is located approximately 2.5 miles southeast of the proposed ASI SOI expansion area at 4201 El Centro Road in unincorporated Sacramento County.
- Development projects in the ASI project area will be required to pay any City-adopted impact fees related to fire protection services, as outlined in the Sacramento City Code.
- The Metro Air Park Project is required to dedicate and fund a future fire station within its project area, and when constructed, this facility will provide additional fire protection coverage in proximity to the ASI project site.

6.8 SOLID WASTE

6.8.A Existing Levels of Service and Improvements

The City of Sacramento's Recycling and Solid Waste Division collects residential solid waste generated throughout the City, including household waste, recycling, and organic wastes. Approximately 660,000 tons of solid waste are generated annually, with the City collecting approximately 250,000 tons, and the remainder collected by franchised waste haulers and individual residents. (*City of Sacramento, <http://www.cityofsacramento.org/Public-Works/RSW>, 2022*) Waste collected by the City is initially transported to two locations. These include the Sacramento Recycling and Transfer Station (SRTS) and Elder Creek Transfer Station, which accepts waste from the southern region of the City, and the Sacramento County North Area Recovery Station (NARS) and Yolo County Central Landfill, which accepts waste from the north region of the City. Refuse is hauled from these locations to the Sacramento County Kiefer Landfill and several other facilities for processing. Solid waste generated by commercial uses (including multifamily residences of five units or more) is collected by private haulers and transported to the SRTS, NARS, Sacramento County Kiefer Landfill, Yolo County Landfill, L and D Landfill, Florin Perkins Landfill, Elder Creek Transfer Station, and other facilities. (*City of Sacramento, General Plan Background Report (March 2015), pp. 4-44*)

The Sacramento County Kiefer Landfill, located at Kiefer Boulevard and Grand Line Road, sits on a 1,084-acre site with approximately 660 acres of landfill area and is one of the primary locations for disposal of solid waste generated in the City of Sacramento. The waste delivered to the landfill is from municipal and industrial sources with an average of approximately 2,423 tons per day accepted. (*City of Sacramento, General Plan Background Report (November 2020), pp. 4-45*)

6.8.B Plans and Regulatory Requirements

Federal Requirements

Title 40 of the Code of Federal Regulations. Criteria for Municipal Solid Waste Landfills is established by Title 40, Part 258, of the Code of Federal Regulations. It contains regulations for municipal solid waste disposal regarding location, design, operation, groundwater safety and monitoring, and closure procedures. State permitting programs are required to incorporate these regulations.

State Requirements

California Department of Resources Recycling and Recovery (CalRecycle). Waste generated in California is overseen, managed, and tracked by CalRecycle. This entity also creates specific regulations and administers grants and loans to California cities, counties, businesses, and organizations to meet State goals for waste reduction, reuse, and recycling.

Assembly Bill (AB) 939. Written in 1989, AB 939 requires that: a) cities and counties have integrated waste management plans (IWMPs); b) approximately 50 percent of solid waste generated by municipalities is diverted from landfills; and c) Source Reduction and Recycling Elements be part of the IWMP.

Senate Bill (SB) 1016. SB 1016 (2008) requires that the 50 percent solid waste diversion requirement established by AB 939 is measured by pounds per person per day. The review process for the Source Reduction and Recycling Elements was changed by SB 1016 to include the establishment of per-year diversion rates and scheduled review of compliance.

Assembly Bill 341. Adopted in October 2011, AB 341 amended the California Integrated Waste Management Act and established a statewide policy goal to divert 75 percent of solid waste from landfills by 2020. AB 341 focused on mandatory commercial recycling and requires California commercial enterprises and public entities that generate 4 or more cubic yards per week of waste, as well as multi-family housing complexes with 5 or more units, to arrange for recycling services.

Assembly Bill 1826. Adopted in October 2014, AB 1826 established statewide requirements that businesses, including apartment complexes, must recycle organic waste starting in 2016 depending on the amount of waste generated per week. In 2020, the threshold was reduced to 2 cubic yards of total solid waste generated including trash, recycling, and organics.

Senate Bill 1383. Adopted September 2016, SB 1383 established methane emissions reduction targets in a statewide effort to reduce emissions of short-lived climate pollutants. This includes a reduction in methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030. SB 1383 also set specific targets for reducing organic wastes in landfills, with a goal to achieve a 50 percent reduction in statewide disposal of organic waste from 2014 levels by 2020, and a 75 percent reduction by 2025.

(City of Sacramento, General Plan Background Report (November 2020), pp. 4-46)

Local Requirements

Sacramento General Plan. The City of Sacramento 2035 General Plan addresses solid waste collection in its Utilities section, which states an overarching goal to maintain efficient, high quality infrastructure facilities and services. Applicable General Plan policies are summarized below:

- **Policy U1.1.1 Provision of Adequate Utilities** that requires the City to provide and maintain adequate water, wastewater, and stormwater drainage utility services to areas in the city, and shall provide and maintain adequate water, wastewater, and stormwater drainage utility services to areas in the city that do not currently receive these City services upon funding and construction of necessary infrastructure.
- **Policy U1.1.4 Timing of Urban Expansion** that requires the City to assure that new public facilities and services are phased in conjunction with the approved urban development they are intended to serve.
- **Policy U1.1.5 Growth and Level of Service** that directs the City to require new development to provide adequate facilities or pay its fair share of the cost for facilities needed to provide services to accommodate growth without adversely impacting current service levels.

- **Policy U5.1.5 Residential and Commercial Waste Disposal** that requires the City to continue to provide curbside trash and recycling collection service to single-family residential dwellings, dwellings of up to four units, condominiums of any number, and mixed-use properties.

City of Sacramento Planning and Development Code. Section 34 of the City’s Planning and Development Code requires that waste mitigation and recycling efforts be incorporated into development plans for all new multifamily and nonresidential projects. These requirements can also apply to the retrofitting of existing development.

City of Sacramento Construction and Demolition Debris Recycling Ordinance. Established in 2009, the ordinance requires all complete demolition and building permits over \$250,000 in value to recycle or reuse 50 percent of all wastes generated and provide proof of meeting this requirement. These requirements have since been updated by the 2019 California Green Building Standards Code, lowering the permit value to \$200,000 and increasing the recycling requirement to a minimum of 65 percent.

Sacramento Climate Action Plan. Adopted in 2012, the Sacramento Climate Action Plan included the goal of 75 percent diversion (recycling or reusing) by 2020 and zero waste to landfills by 2040.

(City of Sacramento, General Plan Background Report (November 2020), pp. 4-47)

6.8.C Study Area Level of Service Improvements

Solid waste generated by construction and operation of the ASI project site will be collected by private franchised haulers for sorting and recycling or self-hauled by subcontractors to construction and demolition recycling facilities. Much of the solid waste generated by construction and operation of the ASI project site may be transported and deposited at the Sacramento County Kiefer Landfill. As of 2018, the landfill has a remaining refuse capacity of approximately 78.5 million cubic yards. As a result, the Kiefer Landfill is currently projected to be able to serve the area between the years 2052 to 2085. *(City of Sacramento, General Plan Background Report (November 2020), pp. 4-45)* With the additional efforts realized through implementation of the City’s adopted Climate Action Plan and General Plan to reduce and eventually eliminate solid waste in landfills, the impact to the City’s current landfill sites should decrease and years of available capacity increase past previous projections. In light of this, the City of Sacramento’s and commercial franchised haulers’ waste collection services are adequate to support current service levels. The waste generated at the ASI project site will create a manageable increase in service levels.

6.8.D Determinations

Based on the information above, the following determinations can be made:

- The commercial franchised hauler waste collection services offered in the City of Sacramento are adequate to support additional solid waste generated by the industrial and commercial operations of the ASI project.
- One of the City’s main landfill sites is expected to maintain capacity to serve the City through the years 2052 to 2085.

6.9 STORM DRAINAGE AND FLOOD CONTROL

6.9.A Existing Levels of Service and Improvements

Natomas Basin

The ASI project site/SOI expansion area is located in the Natomas Basin, a large geographic area of flat terrain in northwestern Sacramento County and southwestern Sutter County. The basin is approximately 55,000 acres in size and spans ± 1.5 miles in a north-south direction and $\pm 5-6$ miles in an east-west direction. Most of the basin has an elevation ranging between $\pm 10'$ to $\pm 25'$, with portions of the basin reaching $\pm 40'$. Historically, the Natomas Basin has been subject to flooding risk from the Sacramento and American Rivers. The Natomas Basin was developed for agricultural purposes in the late 19th and early 20th centuries. Levees, internal drainage channels, and pump stations were constructed to reclaim the often-flooded land for agriculture.

The Natomas Basin is under the jurisdiction of the United States Army Corps of Engineers (USACE). The levees surrounding the Natomas Basin were decertified by the USACE in December 2008. Subsequently, the Sacramento Area Flood Control Agency (SAFCA) and the USACE have been, and currently are, working together to design, fund, and construct levee improvements that will provide the Natomas Basin with 200-year flood protection. Over 50% of the levee improvements have been constructed, and 100% of the funding has been allocated by local, State and Federal agencies to complete all planned levee improvements. This level of levee completion and funding has allowed portions of the Natomas Basin to be classified as A-99 flood zones, including the eastern portion of the ASI project site. “A-99” is an interim designation that allows new development to proceed without elevation verification while the improvements needed to provide 100-year protection are under construction. It remains within a special flood hazard area until construction is complete and the levees are accredited by the Federal Emergency Management Agency (FEMA). The majority of the project site is classified as Zone A, which means FEMA requires more detailed interior (local) drainage assessments to remove it from the special flood hazard area, in addition to addressing the levee flooding issues.

Reclamation District 1000 (RD 1000)

Reclamation District No. 1000 (RD 1000) was formed in 1911 by a Special Act of the Legislature in order to provide agricultural drainage, flood control, and levee maintenance in the Natomas Basin. The District covers the Natomas Basin and is bounded by the Sacramento River on the west, the Natomas Cross Canal on the north, Pleasant Grove Creek and the Natomas East Main Drainage Canals on the east, and the American and Sacramento Rivers on the south and west. RD 1000 has approximately 43 total miles of levees throughout its district, which are all considered “project” levees.

RD 1000’s interior canal and drainage system was originally designed to convey stormwater to the pumping plant at Second Bannon (Plant 1A) for discharge into the Sacramento River. Its purpose was to provide drainage and flood protection to agricultural lands within the District. In 1920, Plant 2 was added at Pritchard Lake to serve as both an irrigation and drainage facility, and in 1939, Plant 3 was added along the Sacramento River. As urban development in the City of Sacramento began occurring in the southeastern area of the basin, additional storm drainage pumping facilities were added to increase capacity. This included the construction of 5 additional pumping plants that were located to relieve pressure on the original pumping plants. Subsequently, the District has entered into several agreements with both the City and County of Sacramento. These agreements memorialized various stormwater drainage services, whereby the District would manage urban runoff in exchange for the City and/or County either: 1) paying for increased capacity; 2) constructing facilities to increase capacity; or 3) requiring new development to compensate the District for adding capacity to accommodate increased runoff.

The ASI project site is affected by off-site stormwater runoff from RD 1000’s System, which enters the site from beneath Interstate 5 to the north via Reach 8 of the Lone Tree Canal. Once on site, Reach 8 of the Lone Tree Canal flows south to join with the West Drainage Canal, which is located along the site’s southern boundary. From this confluence, drainage runoff can be conveyed to either Pumping Plant 3, located to the southeast of the ASI project, or to Pumping Plan 5, located to the northwest. Both of these plants are designed to pump runoff into the Sacramento River.

Improvements to the RD 1000 system have been necessary over the years as the Natomas Basin has urbanized. The downstream system has gone through various improvements, and other improvements remain pending. Recent upstream improvements include the widening and regrading of the Lone Tree Canal (north of I-5) as part of the Northlake project. Additional Lone tree Canal widening and culvert improvements are included in the Metro Air Park Financing Plan, some of which have recently been completed, and include culvert improvements and pump station funding.

The project site is also located in a Federally-recognized internal floodplain (A-99 Zone) and within a local 100-year floodplain (A Zone, based on RD 1000’s modeling). This indicates that the project’s undeveloped land area provides floodwater storage during a 100-year storm event. This floodplain mapping and modeling establishes the accepted definition of interior flooding conditions with the levees being certified. The project site’s interior floodplain will be mitigated with on-site storage.

Sacramento Area Flood Control Agency

The Sacramento Area Flood Control Agency (SAFCA) was formed in 1989 to address the Sacramento area's vulnerability to catastrophic flooding. This vulnerability was exposed during a record flood in 1986 when Folsom Dam exceeded its normal flood control storage capacity and several area levees nearly collapsed. In response, the City of Sacramento, the County of Sacramento, the County of Sutter, the American River Flood Control District, and RD 1000 created SAFCA through a Joint Exercise of Powers Agreement to provide the Sacramento region with increased flood protection along the Sacramento and American Rivers.

SAFCA's mission is to provide the region with at least a 100-year level of flood protection as quickly as possible while seeking a 200-year or greater level of protection over time. Under the Sacramento Area Flood Control Agency Act of 1990, the California Legislature has given SAFCA broad authority to finance flood control projects and has directed the Agency to carry out its flood control responsibilities in ways that provide optimum protection to the natural environment.

On-Site Storm Drainage Facilities

Other than the existing RD 1000 ditches and canals, the existing site has no internal drainage systems flowing overland towards the RD 1000 canals and ditches around the perimeter and through the site. Site topography is relatively flat. The western two-thirds of the site generally has an elevation of 10.0. The elevations increase in the vicinity of the new interchange from elevation 10.0 to elevation 35.0 at the existing Metro Air Parkway bridge crossing of Interstate 5. In the eastern area of the site, elevations generally slope from 10.0 to 25.0 at the east boundary. Development of the ASI project would require the construction of storm drainage facilities that meet applicable Federal, State, and Local regulations and requirements.

6.9.B Plans and Regulatory Requirements

Federal Requirements

The Federal Emergency Management Agency (FEMA). FEMA's "Title 44-Emergency Management and Assistance" (Chapter 1: Federal Emergency Management Agency, Part 65 – Identification and Mapping of Special Flood Hazard Areas) outlines the steps the community needs to take in order to assist FEMA's effort in providing up-to-date identification and publication, in the form of the maps described, on special flood, mudslide (i.e. mudflow), and flood-related erosion hazards.

Local Requirements

Sacramento General Plan. The City of Sacramento 2035 General Plan addresses stormwater drainage in its Utilities section, which includes policies designed to ensure that new drainage facilities are adequately sized and constructed. The following General Plan policies are applicable to stormwater drainage services:

- **Policy U 4.1.1: Adequate Drainage Facilities** that requires the City to ensure that all new drainage facilities are adequately sized and constructed to accommodate stormwater runoff in urbanized areas.
- **Policy U 4.1.4: Watershed Drainage Plans** that directs the City to require developers to prepare watershed drainage plans for proposed developments that define needed drainage improvements per City standards, estimate construction costs for these improvements, and comply with the City's National Pollutant Discharge Elimination System (NPDES) permit.
- **Policy U 4.1.6: New Development** that directs the City to require proponents of new development to submit drainage studies that adhere to City stormwater design requirements and incorporate measures, including "green infrastructure" and Low Impact Development (LID) techniques, to prevent on- or off-site flooding.
- **Policy ER 1.1.4: New Development** that directs the City to require new development to protect the quality of water bodies and natural drainage systems through site design (e.g., cluster development), source controls, storm water treatment, runoff reduction measures, best management practices (BMPs) and Low Impact Development (LID), and hydromodification strategies consistent with the city's NPDES Permit.

- **Policy ER 1.1.5: Limit Stormwater Peak Flows** that directs the City to require all new development to contribute no net increase in stormwater runoff peak flows over existing conditions associated with a 100-year storm event.
- **Policy ER 1.1.6: Post-Development Runoff** that directs the City to impose requirements to control the volume, frequency, duration, and peak flow rates and velocities of runoff from development projects to prevent or reduce downstream erosion and protect stream habitat.
- **Policy EC 2.1.11: New Development** that directs the City to require evaluation of potential flood hazards prior to approval of development projects and shall regulate development in urban and urbanizing areas per state law addressing 200-year level of flood protection.
- **Policy EC 2.1.24: Flood Risk Notification** that directs the City to annually notify owners of residential development protected from flooding by a levee and/or subject to inundation in the event of levee failure of the risk.
- **Policy EC 2.1.25: Deed Notification** that directs the City to require, for areas protected by levees, all new developments to include a notice within the deed that the property is protected by flooding from a levee and that the property can be subject to flooding if the levee fails or is overwhelmed.

6.9.C Study Area Level of Service Improvements

Upon approval of the SOI expansion, stormwater drainage services for the ASI project will be provided by the City of Sacramento and RD 1000 in a similar manner as is currently performed in North Natomas and other areas of the Natomas Basin. In the vicinity of the project site, RD 1000 owns and operates a system of canals and pump stations that move storm drainage from the local area to the Sacramento River. RD 1000 collects all runoff within the Natomas Basin through a system of interconnected channels and directs this runoff to pump stations in order to lift the water into the leveed rivers and channels surrounding Natomas. These channels and pumping systems rely on existing flood storage in low lying areas to dampen peak flows, metering water into the pump stations and allowing pumping to operate efficiently.

The City of Sacramento is the planned owner and operator of the future on-site drainage system that is designed to detain/retain urban runoff and pump it for discharge into RD 1000's system. RD 1000 is then responsible for the off-site system conveying the stormwater from the project site to the Sacramento River.

Development of the ASI project requires that the site's development area be raised above the previously-identified floodplain. Buildings' finished floors would be raised above RD 1000's identified floodplain elevations and parking areas would be elevated to limit 100-year flood depth to an acceptable range. To offset the loss of existing on-site stormwater storage, the ASI project design incorporates on-site detention/retention facilities to mitigate the impacts of elevating the site's development areas. The on-site storm drain facilities are planned to include a piped system to convey the 10-year storm events. Overland release through streets and parking will convey the 100-year event. All of the project's internal storm drainage will be directed to the proposed on-site detention basins and pump station.

Within the Natomas Basin, RD 1000 requires that developed lands mitigate their post-project runoff in order not to increase above pre-project levels. To achieve this requirement, the ASI project's on-site design consists of a perimeter system of detention/retention basins located adjacent to existing RD 1000 ditches/canals and areas adjacent to Reach 8 and the canals south of the site. The basins are designed to be interconnected via culverts, thereby providing a single, continuous on-site system that is controlled by a planned on-site pump station. The on-site system also connects to RD 1000's system through a series of weirs and is designed to meet the pre-project spill condition and to provide on-site floodplain storage.

6.9.D Determinations

Based on the information above, the following determinations can be made:

- The United States Army Corps of Engineers (USACE) and the Sacramento Area Flood Control Agency (SAFCA) are collaborating on the construction of levee improvements that will provide 200-year flood protection to the Natomas Basin.
- RD 1000 maintains regional drainage facilities both adjacent to, and within, the ASI project site, which convey off-site stormwater runoff to pumping facilities where it is discharged into the Sacramento River.

- The City of Sacramento, the County of Sacramento, the County of Sutter, the American River Flood Control District, and RD 1000 created the Sacramento Area Flood Control Agency (SAFCA) to provide the Sacramento region with increased flood protection along the Sacramento and American Rivers.
- The ASI project's on-site drainage systems have been designed to mitigate post-project runoff levels to be equal to, or less than, pre-project levels, consistent with RD 1000's requirements. This includes a system of detention/retention basins, pumping facilities, and weirs that connect the on-site system with RD 1000's system.

6.10 PARKS AND RECREATION

6.10.A Existing Levels of Service and Improvements

The City of Sacramento's Youth, Parks, and Community Enrichment (YPCE) Department manages its network of parks, open spaces, and recreation areas that contribute significantly to the identity and character of the City's neighborhoods and urban areas. The department is responsible for planning and acquiring land for new parks, renovating existing parks, and maintaining these facilities. Additionally, the department is responsible for preserving, protecting, and enforcing park regulations of over 234 facilities with 4,360 acres of parks, parkways, open space, community centers, aquatic facilities, and bike trails Citywide. (*City of Sacramento, FY2022/23 Approved Budget, pp. 270-271*)

The City operates and maintains 218 parks, recreation, parkway and open space sites, 21 lakes, ponds and beaches, 17 aquatic facilities, 13 community centers, and approximately 115 miles of shared-use paths. Parks and open space areas are classified as summarized below, which consists of three park types plus open space. Open space may be a component of any park type, but is most common in regional or community parks. These classifications include:

- **Neighborhood Parks.** These facilities are generally smaller than 10 acres in size and are designed to serve residents within a half-mile radius. Some facilities are located adjacent to elementary schools where park programming can be oriented to the recreational needs of children. This park classification also includes urban plazas and pocket parks, which are strictly less than five acres in size and typically sited in denser urban and mixed-use developments.
- **Community Parks.** Community parks are generally 6-60 acres in size, providing a broader range of amenities for several neighborhoods within a three-mile radius. In addition to the types of amenities provided at neighborhood parks, community parks are sized to provide additional amenities such as restrooms, on-site parking, community centers, swimming pools, lighted sports fields or courts, and/or other specialized facilities.
- **Citywide/Regional Parks/Parkways.** These are Sacramento's largest park facilities, which are designed to serve the needs of the entire City population. Citywide/Regional Parks typically incorporate amenities that are not found in smaller neighborhood or community parks and may include facilities such as golf courses, aquatic centers, marinas, amusement areas, nature areas, and/or shared-use trails. Parkways are also included in this classification and typically consist of linear, narrow corridors with limited recreational uses that are primarily used for pedestrian/bicycle linkages between residential neighborhoods, schools, parks, and shopping areas.
- **Open Space.** This classification is for natural areas within the City that are used to protect environmental amenities, such as native plant communities or wildlife habitat. As such, open space areas generally have limited recreational use. While classified separately, parkways are similar to the open space classification due to their limited recreational use and design.

(*City of Sacramento, General Plan Background Report (November 2020), pp. 5-26 to 5-27*)

Recreation Programs

A variety of recreation programs for all ages are offered by the YPCE Department. This includes adult and youth sports classes; special events; after-school, summer, and aquatic programs; community classes and enrichment programs; and coordinates reservations for baseball and softball fields. Additionally, the City's community centers are used to hold events such as flea markets, family nights, craft fairs, and holiday

and multicultural celebrations. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 5-30 to 5-33)

Planned Improvements

The City of Sacramento is currently in the process of updating its Parks and Recreation Master Plan (PRMP) as part of the 2040 General Plan Update. The updated PRMP will utilize a combination of professional expertise and community feedback to evaluate the current conditions and potential areas for improvement of parks facilities and recreation programs. The Parks Plan will offer policy recommendations to guide maintenance of existing facilities and the development of new parks and programs for the next 20 years. The updated Master Plan is expected to be adopted in Fall 2023.

6.10.B Plans and Regulatory Requirements

Local Requirements

City of Sacramento General Plan. The Sacramento 2035 General Plan Education, Recreation and Culture Element contains goals and policies to guide the maintenance of existing parks and development of new facilities and programs. The goals and policies in the General Plan intend to integrate parks and recreation in a way that is highly accessible to neighborhoods and immersed with other public services and amenities throughout the City.

Applicable policies are summarized below:

- **Policy ERC 2.1.1 Complete System** that requires the City to develop and maintain a complete system of parks and open space areas throughout Sacramento that provide opportunities for both passive and active recreation.
- **Policy ERC 2.1.2 Connected Network** that requires the City to connect all parts of Sacramento through integration of recreation and community facilities with other public spaces and rights-of-way (e.g., buffers, medians, bikeways, sidewalks, trails, bridges, and transit routes) that are easily accessible by alternative modes of transportation.
- **Policy ERC 2.2.3 Service Level Radius** that requires the City to strive to provide accessible public park or recreational open space within one-half mile of all residences.
- **Policy ERC 2.2.4 Park Acreage Service Level Goal** that requires the City to strive to develop and maintain 5 acres of neighborhood and community parks and other recreational facilities/sites per 1,000 population.
- **Policy ERC 2.2.5 Meeting Service Level Goal** that requires the City to require new residential development to meet its fair share of the park acreage service level goal by either dedicating land for new parks, paying a fair share of the costs for new parks and recreation facilities or renovation of existing parks and recreation facilities. For new development in urban areas where land dedication or acquisition is constrained by lack of available properties (e.g., the Central City), new development shall either construct improvements or pay fees for existing park and recreation enhancements to address increased use. Additionally, the City shall identify and pursue the best possible options for park development, such as joint use, regional park partnerships, private open space, acquisition of parkland, and use of grant funding.
- **Policy ERC 2.2.6 Urban Park Facility Improvements** that requires the City to explore creative solutions to provide neighborhood park and recreation facilities in urban areas where land dedication is not reasonably feasible.
- **Policy ERC 2.2.8 Capital Investment Priorities** that requires the City to explore creative solutions to provide neighborhood park and recreation facilities give priority to specified capital investments, including acquisition of park land in areas where adopted service levels are not being met and acquisition of large natural areas for habitat protection and passive recreation use areas.
- **Policy ERC 2.2.9 Small Public Places for New Development** that requires the City to allow new development to provide small plazas, pocket parks, civic spaces, and other gathering places that are available to the public, particularly in infill areas, to help meet recreational demands.

- **Policy ERC 2.2.10 Range of Experience** that requires the City to provide a range of parks and recreational facilities in a range of sizes, with larger parks located at City edges and along rivers and smaller parks located in denser development areas.
- **Policy ERC 2.2.12 Compatibility with Adjoining Uses** that requires the City to ensure that the location and design of all parks, recreation and community centers are compatible with existing and adjoining uses.
- **Policy ERC 2.2.20 Responsiveness to Community** that requires the City to work with affected neighborhoods in the design of parks and recreational facilities to meet residents' needs and interests.

6.10.C Study Area Level of Service Improvements

The nearest parks, located just east of the ASI project site, include the 4.93-acre Egret Park and the 3.6-acre Egret Park Open Space, the 1.75-acre Sparrow Park, and the 10.35-acre Westlake Community Park. These parks serve the Westlake and Sundance Lake areas, which contain predominantly residential development. Development of the Northlake (formerly Greenbriar) community located to the northeast of the project site includes plans for five parks, totaling 37.6 acres of additional parkland. Much of the land west of the site and surrounding Sacramento International Airport is vacant or used for agricultural purposes. Recreational opportunities exist on the west side of the Sacramento River in Elkhorn Regional Park.

6.10.D Determinations

Based on the information above, the following determinations can be made:

- Demand for parks and recreation services in the City is primarily generated by residential development. An adequate amount of parkland exists in the City to serve existing development.
- The ASI project, which consists of industrial and commercial uses, will not generate residential uses that create an additional demand for the City's parks or recreation services.

6.11 LIBRARIES

6.11.A Existing Levels of Service and Improvements

This section summarizes the City's current library services, lists existing facilities, and identifies the need and plans for expansions. The importance of a library system is to provide to the public a major source of information, academic activities, research data, and contribute to the community's cultural activities. The libraries in the cities and County of Sacramento are functionally consolidated as a single system. The Sacramento Public Library (SPL) is a joint powers agency between the cities of Sacramento, Citrus Heights, Elk Grove, Galt, Isleton, Rancho Cordova, and the County of Sacramento. SPL serves residents of these cities and throughout unincorporated Sacramento County. (*City of Sacramento, General Plan Background Report (November 2020), pp. 5-47*)

The SPL is the fourth largest library system in California with 28 locations serving 1.4-million urban, suburban, and rural residents. In addition to lending books, the SPL offers services and programming focused on early learning, technology and creation and is committed to providing Sacramento communities with welcoming community spaces. (<https://www.saclibrary.org/About/Mission-Vision>, 2022)

SPL operates a total of 28 branches, including 12 branches within the City and 16 branches in other cities and throughout Sacramento County. SPL also operates a bookmobile. Residents of Sacramento County have access to all library branches both inside and outside the City of Sacramento.

The SPL's main branch, also known as the Central Library, was founded by community leaders in 1857 and is located in downtown Sacramento at 8th and I Streets. It now contains nearly 300,000 volumes and more than 1,000 periodical subscriptions. Many special collections are housed at the Central Library, including business, government documents, genealogy, and literature. Its Sacramento Room includes special collections on California and Sacramento history, local authors, and the library's history. The Central Library has many unique resources, including online and CD based resources, internet stations, and the Schwab-Rosenhouse College Resource Center, which provides free consultations with professional college and career counselors and access to a variety of college preparatory resources. The Tsakopoulos Library Galleria

provides a 5,400 square foot space available for a variety of events, including weddings, meetings, seminars, parties, receptions, fund raisers, and trade shows. The Galleria also includes two smaller meeting rooms. (*City of Sacramento, General Plan Background Report (November 2020), pp. 5-47*)

The North Natomas Public Library is the closest library to the ASI project site and is located approximately 2.5-miles to the east at 4660 Via Ingoglia in the City. It is a joint-use facility serving the North Natomas community, as well as the students, faculty, and staff of both Inderkum High School and the Natomas Center of American River College. As such, this library features a diverse collection of materials serving the needs of the high school and community college students, a collection for children, recreational and informational reading for adults, magazines, newspapers, and a variety of media as well as public computer workstations. On-site amenities include a book drop, a variety of computing services, public spaces, and a meeting room.

In addition, other entities operate libraries in the City of Sacramento. One such facility is the California State Library, which is operated by the State of California. The State Library operates out of three locations, the Stanley Mosk Library and Courts Building at 9th and Capitol Streets, and Library and Courts II Building at 9th and N Streets, both in downtown Sacramento. The State Library provides reference services, on-site use or loan of collections, California history information, genealogy resources, braille and recorded books, a directory of libraries, and internet access. The State Library's circulating materials are also loaned out to the public through local libraries. The State Library also provides services to the State government, local governments, and local libraries. (*City of Sacramento, General Plan Background Report (November 2020), pp. 5-49*)

6.11.B Plans and Regulatory Requirements

Local Requirements

City of Sacramento General Plan. The Sacramento 2035 General Plan's Education, Recreation and Culture Element contains goals and policies to guide provisions for the City's library services. Applicable policies are summarized below:

- **Policy ERC 3.1.1 Adequate Services and Facilities** that requires the City to ensure adequate library services and facilities are maintained for all residents.
- **Policy ERC 3.1.2 Library Siting** that requires the City to promote the siting of libraries in higher-density and infill areas along major arterials and transit service routes to provide convenient access to Sacramento residents.
- **Policy ERC 3.1.3 Under-Served Areas** that requires the City to give priority to the construction of new libraries in communities that are deficient in library services, including East Sacramento near 65th Street and Folsom Boulevard, North Sacramento, and the South Area Community Plan area.
- **Policy ERC 3.1.4 Joint Use** that requires the City to encourage the development and use of multi-functional library facilities by public and private agencies at locations such as schools, community centers, and public-private partnership venues.
- **Policy ERC 3.1.5 Digital Literacy and Access** that requires the City to encourage access to digital resources and information tools and the development of 21st Century literacy skills.
- **Policy ERC 3.1.6 Educational Awareness** that requires the City to promote public awareness of library facilities and services.
- **Policy ERC 3.1.7 Funding** that requires the City to, in conjunction with the Sacramento Library Authority, explore methods of financing new library facilities and expanding and upgrading existing facilities.

(*City of Sacramento, 2035 General Plan, March 3, 2015, pp. 2-269 to 2-271*)

6.11.C Study Area Level of Service Improvements

The Airport South Industrial project consists of commercial and industrial uses. Typically, level of service for community libraries is correlated with residential uses and population. Development of the ASI project site with commercial and industrial uses will not increase the City's residential population and its operation is not expected to significantly increase the need for the City's existing library services. For these reasons, level

of service improvements and/or expansion of current library resources are not warranted to serve the proposed ASI project.

6.11.D Determinations

Based on the information above, the following determinations can be made:

- The City of Sacramento's libraries are adequate for its current population.
- Development of the ASI project will not increase the City's residential population, and the introduction of commercial and industrial uses is not expected to significantly increase the need for the City's existing library services.
- The ASI project does not significantly increase the demand libraries in the community, therefore, no expansion of current library resources is warranted.

6.12 ELECTRICITY & NATURAL GAS

6.12.A Existing Levels of Service and Improvements

The Sacramento Municipal Utility District (SMUD) is responsible for the acquisition, generation, transmission and distribution of electrical service throughout the City of Sacramento. In addition to the City of Sacramento, SMUD's service area includes most of Sacramento County and a portion of Placer County. Electricity is produced from a variety of resources, including hydroelectric, thermal (natural gas), wind, and solar facilities. SMUD prepares an Integrated Resource Plan (IRP) that includes targets for system demand, system energy sales, renewable energy, and greenhouse gases. The IRP evaluates various methods and options to meet SMUD's long-term needs and evaluates the impacts of various resource portfolios on SMUD's strategic policies. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-47 to 4-51)

Pacific Gas & Electric Company (PG&E) provides natural gas service to residents and businesses in the Sacramento Area, including the proposed SOI expansion area. In the winter months, most natural gas resources are imported from Canada on a supply and demand basis, with the balance supplied from production wells in California. In the summer months, gas is acquired at a lower price and is stored in underground storage facilities for use during winter peak use periods. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-59)

6.12.B Plans and Regulatory Requirements

Federal Requirements

Federal Energy Regulatory Commission (FERC). FERC is an independent agency that regulates the interstate transmission of electricity, natural gas, and oil. FERC reviews proposals to build liquefied natural gas (LNG) terminals and interstate natural gas pipelines, and licenses hydropower projects. The Energy Policy Act of 2005 gave FERC additional responsibilities, including: promoting the development of a strong energy infrastructure; open access transmission tariff reform; and preventing market manipulation. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-53)

Federal Power Act. SMUD is not a public utility as defined by the Federal Power Act. Accordingly, FERC does not regulate SMUD's rates or terms and conditions of service. Instead, SMUD's rates are set by its Board of Directors. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-53)

Clean Power Plan. Known as the Clean Power Plan, in 2015 the EPA established the Carbon Pollution Emission Guidelines for Existing Stationary Sources. It provides guidelines directing how states must develop plans to reduce greenhouse gas emissions from existing fossil-fuel-fired electric generating units and includes state-specific goals for CO₂ emission performance rates. Compliance with state emission goals begins in 2022 with full compliance with final goals required by 2030. Concurrent with the Clean Power Plan, the EPA established Standards of Performance for Greenhouse Gas Emissions from New, Modified, and Reconstructed Stationary Sources, which prescribes CO₂ emission standards for newly-constructed, modified, and reconstructed affected fossil fuel-fired electric utility generating units. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-53)

State Requirements

California Public Utilities Commission (CPUC). The CPUC is a State agency created by constitutional amendment to regulate privately-owned entities that provide public services, including those providing electricity and natural gas services. The CPUC is responsible for assuring California utility customers have safe, reliable utility services at reasonable rates. As a local publicly owned electric utility, SMUD does not fall within the jurisdiction of the California Public Utility Commission. Instead, SMUD is regulated by the Municipal Utility District Act (Public Utilities Code of the State of California, Division 6). (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-54)

Title 24, California Code of Regulations. Energy consumption of new buildings in California is regulated by State Building Energy Efficiency Standards, of Title 24 in the California Code of Regulations. Title 24 applies to all new construction and includes energy consumption regulations for heating, cooling, ventilation, water heating, and lighting systems. Title 24 also includes CALGreen, which is formally known as the California Green Building Standards Code, Title 24, Part 11, of the California Code of Regulations. CALGreen establishes mandatory minimum green building standards and includes more stringent optional provisions known as Tier 1 and Tier 2. The City of Sacramento adopted Tier 1 Building Code standards for all new development, effective January 1, 2014. In January 2020, updated CALGreen standards took effect to include mandatory environmental performance standards for newly constructed low-rise residential and commercial projects, including state-owned buildings, schools, and hospitals. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-58)

Senate Bill 705 (SB 705). SB 705 requires California's gas corporations to provide periodic updates to the CPUC regarding gas system safety actions. Updates must include a plan that describes how a gas corporation will implement its policies to achieve the previously identified objectives. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-62)

Local Requirements

Sacramento Green Building Program. The City of Sacramento's Council-adopted Green Building Program promotes sustainable private development. The program includes previously adopted green building guidelines (i.e., LEED and GreenPoint), voluntary green building checklists for developers, and a Green Building Task Force. (*City of Sacramento, General Plan Background Report (March 2015)*, pp. 4-57)

Sacramento Climate Action Plan. The City of Sacramento's Council-adopted Climate Action Plan incorporates goals to achieve zero net energy consumption in all new construction by the year 2030 and to achieve an overall 15% reduction in energy use in all existing residential and commercial buildings by 2020. The General Plan also includes the goal of reducing energy demand 25 percent by 2030 compared to 2005 levels. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-59)

SMUD Transmission Guidelines. SMUD's adopted Transmission Guidelines are designed to assist developers and engineers through the process of developing property within or adjacent to SMUD's existing electric transmission easements. The Guidelines also assist in planning of new transmission lines, minimizing potential negative impacts to SMUD's facilities, and increasing public safety near transmission lines. (*City of Sacramento, General Plan Background Report (November 2020)*, pp. 4-59)

6.12.C Study Area Level of Service Improvements

The ASI project site currently consists of undeveloped, vacant land and does not require energy services. Upon buildout of the ASI project, both SMUD's electric infrastructure and PG&E's natural gas service lines will be extended to the site from adjacent development areas.

6.12.D Determinations

Based on the information above, the following determinations can be made:

- SMUD provides electrical service to the City of Sacramento and most of Sacramento County, with electricity sourced from a combination of hydroelectric, thermal (natural gas), wind, and solar resources.
- PG&E supplies natural gas to the Sacramento area. During the winter, most natural gas is imported from Canada, and the balance is supplied from production wells in California.

- The City of Sacramento implements local regulations and programs that are designed to conserve energy, incorporate sustainable, green building practices into new construction, and to achieve zero net energy consumption in new construction by the year 2030.

7. Financial Ability to Provide Services

7.1 OVERVIEW

The purpose of this sub-section is to determine the feasibility for the City of Sacramento, and SacSewer to provide municipal services to the Airport South Industrial (ASI) project and Sphere of Influence (SOI) expansion area. As noted throughout Section 6 of this MSR, the City and other public agencies currently have financing mechanisms and policies in place to fund public facilities and services. Generally, new development is responsible for funding required public facilities and services through assessments, fees, user fees, and General Fund allotments. In some instances, other funding mechanisms are utilized to augment available revenues, such as Community Facilities Districts (CFDs) which can be used for capital improvements, maintenance, and other governmental services.

The City of Sacramento, and SacSewer adopt their operating budgets annually. Each budget is a technical document and includes information regarding department operations and estimated expenses and revenues. The City's budget also includes a forecast that outlines anticipated expenditures and revenues of all revenue sources over a 5-year horizon, as well as detailed information on Citywide staffing, revenue estimates, and proposed expenditures for governmental, enterprise, and special revenue funds. SacSewer's budget outlines monthly operating fund expenditures and revenues, including current project design/construction costs as well as lifetime operation and maintenance costs. SacSewer's budget includes operational costs and revenues and the percentage shifts between current budgeting and the previous budget cycle.

7.2 CITY FUNDS AND REVENUE SOURCES

The City's accounting system utilizes separate funds to demonstrate compliance with finance-related legal requirements. Discrete funds have been established to account for specific activities in accordance with applicable regulations, restrictions, or limitations. Several types of funds are maintained by the City, each with different functions and revenue sources. Revenue for each fund is generated by a combination of taxes, licenses and permits, and service fees.

7.2.A Governmental Funds

Governmental funds are primarily generated through by taxes, licenses and permit fees, and other charges and fees for services. Revenues for this fund are used for most of the City's basic services and are organized into the following categories:

- **General Fund.** The General Fund is the City's primary operating fund and accounts for most of the City's financial resources. It is used for general governmental services including the offices of the City Attorney, City Auditor, City Clerk, City Manager, and City Treasurer; City Council; Fire; Police; Youth, Parks, and Community Enrichment; and other support and operating departments. Revenue sources include taxes, licenses, permits, fees, fines, intergovernmental revenues, and charges for services, special assessments, interest income, and other discretionary resources. Additionally, an "economic uncertainty reserve" (EUR) fund was established in 2016 to better enable the City to manage the potential negative impacts from economic fluctuations that affect General Fund revenues. The EUR requires a minimum reserve level equal to 10% of annual General Fund revenues and a target reserve level equal to two months of regular ongoing General Fund expenditures.
- **Measure U Fund.** The Measure U Fund was originally approved by voters in 2012 to generate revenues from a half-cent transactions and use tax. And in 2018, voters approved a change to

Measure U that increased the tax to one cent. Because Measure U was approved as a general tax, this revenue source can be used for any general governmental purpose. The Measure U Fund is also subject to the EUR requirement that is applied to the General Fund.

For the 2022/23 fiscal year, combined revenue from General and Measure U Funds is estimated to be nearly \$743.1 million. (*City of Sacramento, FY2022/23 Approved Budget, p. 105*)

7.2.B Other Governmental Funds

There are several types of Other Governmental Funds maintained by the City. These include:

- **Special Revenue Funds.** These are used to account for specific revenue sources that are restricted or are committed to specified expenditures. These funds are generally required by statute, charter, or ordinance to finance specific governmental functions.
- **Debt Service Funds.** These are used to account for financial resources that are restricted, committed, or assigned to expenditure for principal and interest, or that are being accumulated for principal and interest maturing in future years.
- **Capital Projects Funds.** These are used to account for financial resources that are restricted, committed, or assigned to expenditure for governmental capital assets.

For the 2022/23 fiscal year, revenue from Other Governmental Funds is estimated to be approximately \$138.1 million. (*City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 105*)

7.2.C Proprietary Funds

Proprietary funds providing accounting for services where customer fees are utilized to finance operational costs. The City maintains two types of proprietary funds, as summarized below.

Enterprise Funds

Enterprise funds refer to revenues from programs and services that are operated similar to transactional business-type activities. The City maintains several enterprise funds to account for services that are rendered on a fee basis. These include:

- **Community Center Fund.** This fund accounts for the operation and maintenance of the City's Convention Center Complex, including the Convention Center Theater, Memorial Auditorium, and the Community Center.
- **Parking Fund.** This fund accounts for the operation and maintenance of the City's parking garages and surface parking lots.
- **Solid Waste Fund.** This fund accounts for the collection and disposal of refuse throughout the City.
- **Storm Drainage Fund.** This fund accounts for the operation and maintenance of the City's surface storm water drainage infrastructure.
- **Wastewater Fund.** This fund accounts for the operation and maintenance of the City's wastewater system.
- **Water Fund.** This fund accounts for the operation and maintenance of the City's water treatment plants and associated and transmission and distribution systems.

For the 2022/23 fiscal year, revenue from Enterprise Funds is estimated to be approximately \$373.4 million. (*City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 105*)

Internal Service Funds

The City maintains several types of Internal Service Funds, which are also referred to as the City's Fleet Fund and Risk Management Fund. These funds account for various activities and/or services that are delivered by one department to another department on a cost reimbursement basis. For the 2022/23 fiscal year, revenue from Internal Service Funds is estimated to be nearly \$121.6 million. (*City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 105*)

7.2.D Fiduciary Funds

Fiduciary funds account for activities that most closely resemble not-for-profit organizations, including trusts and agency activities. This includes funds where the City is identified as:

- The trustee, or fiduciary, for its closed Sacramento City Employees' Retirement System pension plan;
- Responsible for other assets, held on behalf of investors, in the City's investment pool and individual investment accounts;
- Responsible for the assets received by the Successor Agency from the City's former Assembly Bill X1 26 which dissolved redevelopment agencies in California; or
- The agent for bonded assessment and Community Facilities Districts and responsible for ensuring the assets reported in these funds are used for their intended purposes.

(City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 45)

7.3 CITY OPERATING BUDGET

For fiscal year 2022/2023, the City's Operating and Capital Improvement Program (CIP) Budgets was approved for \$1.45 billion from all funding sources and authorizes 4,992.4 full-time equivalent (FTE) staffing positions. This includes \$742 million from the City's General and Measure U Funds for operations and capital projects, as well as \$708 million from the City's enterprise and other fund activities for operations and capital projects. *(City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 24)*

7.4 CITY CAPITAL IMPROVEMENT PROGRAMS

Capital improvements are major projects or programs undertaken by the City in order to improve, preserve, enhance, or modernize its delivery of municipal services. The City's Capital Improvement Program (CIP) is the City's five-year financial plan that outlines its financial strategy to achieve identified infrastructure and facility needs. It reflects the City Council's adopted policies and it incorporates identified priorities for parks and recreation facilities and programming, transportation plans, utility master plans, and deferred maintenance.

The CIP, adopted annually with a rolling five-year sunset date, identifies current and future fiscal requirements and is the basis for determining annual capital budget expenditures. The five-year CIP identifies 134 projects with estimated total funding of \$420.5 million. For the 2022/23 fiscal year, the CIP includes \$120.8 million in funding for 123 projects or programs. The CIP's primary goals are to adhere to Federal, State, and local mandates/laws and to strategically leverage resources to maintain or improve the City's assets. *(City of Sacramento, Capital Improvement Program 2022-2027, July 2022, p. 5)*

The CIP includes several types of programs to fund various Citywide goals and initiatives. Funding for each program is derived from multiple revenue sources, as identified previously in this section. The CIP is organized into the following programs:

- **General Government Program.** This program focuses on preservation of existing facilities and a continued implementation of "green building" programs and sustainable practices. It is divided into major subprograms, including: City Facilities; Fee and Charge Supported; Fleet Management; Information Technology; and Libraries. *(City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. D-1)*
- **Public Safety.** This program establishes and supports capital projects to help ensure that both fire and police operational facilities maintain efficient, safe, and effective operations. This program focuses resources toward programs that have ongoing funding requirements necessary to address repairs, replacement, and upgrades to the City's public safety infrastructure. *(City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. E-1)*
- **Convention, Culture, and Leisure.** This program focuses on the City's cultural features with the intent to deliver accessible arts, leisure, and educational experiences that enhance the City's quality of life. Resources are used to help create a vibrant metropolitan region by providing exceptional cultural, artistic, and leisure opportunities. *(City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. F-1)*
- **Parks and Recreation.** This program provides resources to provide and maintain recreational facilities, and to preserve open space areas. It focuses on improving the quality of life through a robust park system

and emphasizes renovation and rehabilitation of the City's aging park amenities. (*City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. G-1*)

- **Transportation.** This program focuses on the maintenance of, and upgrades to, the City's aging transportation network. This includes facilities that serve automobiles, trucks, buses, trains, bikes, pedestrians, and scooters for users of all modes and abilities. Resources to maintain and improve the transportation network come from a variety of sources, primarily the countywide transportation sales tax, state gas taxes, federal and state funding, and special fees and taxes. The Transportation Program is divided into several sub-programs including: Active transportation systems for pedestrians, bikeways, lighting, and streetscape improvements; Bridges requiring replacement or rehabilitation; Major transportation improvements such as roadway construction; Parking facility maintenance and upgrades; Public rights-of-way accessibility for the installation of improvements that enhance accessibility; Maintenance projects for roadway and bikeway rehabilitation; and Traffic operations and safety to provide safety improvements, traffic calming, active transportation safety, and major streetlight replacement. (*City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. H-1,2*)
- **City Utilities.** This program focuses on capital improvements that provide and maintain municipal services and facilities that benefit the community, promote sustainability, enhance livability, and expand economic development. It utilizes an asset management process to prioritize utility rehabilitation and replacement needs based on information collected through various Citywide sources. The program is divided into several sub-programs, including: Water; Wastewater, Storm Drainage; and Recycling and Solid Waste. (*City of Sacramento, Capital Improvement Program 2022-2027, July 2022, pp. I-1*)

7.5 SACSEWER REVENUES, BUDGET & IMPROVEMENTS

Revenue generation for SacSewer is derived from multiple sources, including monthly service charges, sewer impact fees for development, and cash interest earned. Anticipated revenues are utilized to determine appropriate operating budgets for each agency. Prior to the Sacramento Regional County Sanitation District (Regional San) and Sacramento Area Sewer District consolidation that went into effect as of January 1, 2024, for the Fiscal Year 2022/2023, Regional San approved a balanced operating budget totaling approximately \$157.4 million and SacSewer approved a budget of approximately \$93.6 million. The budget for SacSewer is utilized to fund system upgrades, treatment plant operations, infrastructure/system maintenance, support services, and debt service. These operating budgets are also used to fund salaries, benefits, supplies, assistance programs, and contingency funds, with undesignated cash reserves anticipated.

7.6 PUBLIC FACILITIES FINANCING PLAN

A Public Facilities Finance Plan (PFFP) has been prepared for the Airport South Industrial project. It provides an overview of the project's development approach and financing strategies for backbone infrastructure, public facilities, and various developer obligations. The PFFP also identifies the estimated cost of facilities and identifies funding sources to pay for them. The PFFP provides financing strategies for all municipal facilities and services needed to serve the project, as summarized below:

- **Backbone Infrastructure.** This consists of many essential public service-based infrastructure improvements, including roadways and underground utilities, such as storm drainage, sanitary sewer, and water systems.
- **Public Facilities.** This consists of transit facilities, such as light rail stations, library and community center facilities, parks and recreation facilities, open space areas, public parking facilities, schools, and public safety services, such as Police and Fire.
- **Other Developer Obligations.** This consists of other amenities or elements of community benefit that would be required of a developer through project buildout.

The PFFP identifies preliminary funding sources to offset the costs for the facilities and services outlined above based on City policies. Additionally, the PFFP includes phasing information for the construction timing of required facilities and services and addresses how the City's policy framework will be applied to fund all improvements and services.

The PFFP includes estimated costs and funding sources for development of the Airport South Industrial project, which are summarized in the table below.

Table 11: PFFP Cost and Funding Summary

INSERT TABLE FROM PFFP WHEN COMPLETE

As shown in the table above, the various funding sources derived from development of the ASI project are sufficient to cover costs of backbone infrastructure, public facilities, and other developer obligations.

7.7 DETERMINATIONS

Based on the information above, the following determinations can be made:

- City revenues are derived from a variety of sources that are allocated to different types of funds for different services. These include ongoing revenues, such as those from the Measure U sales tax, and fees derived from programs and services provided by the City.
- For fiscal year 2022/23, the City Council approved a balanced budget of \$1.45 billion, which includes revenues from utility sales for its enterprise services such as water, wastewater, electricity, and solid waste.
- The City adopts an annual Capital Improvement Program that identifies projects and funding strategies for a five-year future timeline. The five-year CIP estimates a total funding of \$420.5 million for capital projects. For the 2022/23 fiscal year, the CIP includes \$120.8 million in funding for projects or programs.
- SacSewer generates ongoing revenue from a variety of sources, including service charges, sewer impact fees, and cash interest earned.
- Prior to the Sacramento Regional County Sanitation District (Regional San) and Sacramento Area Sewer District consolidation that went into effect as of January 1, 2024, for the Fiscal Year 2022/2023, Regional San and SacSewer approved balanced budgets totaling approximately \$157.4 million and \$93.6 million, respectively, which are utilized to fund system upgrades, infrastructure operation and maintenance, staff salaries, and other needs.
- A Public Facilities Financing Plan (PFFP) was prepared for the Airport South Industrial project, which identifies all backbone infrastructure improvements, public facilities, and associated administrative costs for project buildout. The PFFP includes financing strategies and measures to fund, or offset the cost of, extension of the City’s municipal services to the proposed SOI expansion area.

8. Shared Facilities

The purpose of this section is to assess the status of, and opportunities for, shared facilities or services between the City and Sacramento County or other agencies, cities, and/or special districts, including opportunities for cost savings through the reduction/elimination of redundancies. The intent is that, by sharing resources, the costs to provide municipal services can be reduced in order to realize increased operational efficiencies. As the City of Sacramento, and SacSewer expand their respective Spheres of Influence and annex land into their respective service boundaries, the City will become the lead provider of municipal services, thereby shifting the responsibilities away from the County and various special districts that currently provide services to unincorporated areas. This transfer will prevent the duplication of services and will minimize unnecessary costs. The entities providing wastewater collection and treatment services for the City and/or County would not change, however the service area boundary for SacSewer would be expanded to extend this service capability to the project site. As noted below, some public agencies currently share facilities and resources with the City, while other opportunities are being explored to share resources and reduce costs.

8.1 WASTEWATER COLLECTION AND TREATMENT

SacSewer provides wastewater collection and treatment services for several public agencies and districts. This includes service to the City of Sacramento, the City of Folsom, The City of Rancho Cordova, the City of Elk Grove, the City of West Sacramento, and the City of Citrus Heights. All of these entities benefit from the the formation of SacSewer through the cost and administrative benefits of sharing one regional network and wastewater treatment facility, rather than each agency/district operating its own treatment plant(s) and major conveyance facilities. In this manner, wastewater services are more efficient, and costs are shared among larger populations who benefit.

SacSewer utilizes skilled contract workers from the County of Sacramento

The agency has a Master Interagency Agreement with other agencies regarding wastewater management. The facilities are already being shared across multiple agencies and jurisdictions. SacSewer provides services to unincorporated areas of Sacramento County, the cities of Citrus Heights, Elk Grove, Rancho Cordova, as well as portions of the cities of Folsom and Sacramento. The Sacramento Regional Wastewater Treatment Plant (SWTP) provides wastewater treatment services for SacSewer, the City of Folsom, and the City of Sacramento.

8.2 FLOOD CONTROL

Reclamation District 1000 (RD 1000) is one of the five contributing joint powers of the Sacramento Area Flood Control Agency (SAFCA). SAFCA was formed through a joint exercise of powers agreement, between the City of Sacramento, Sacramento County, Sutter County, the American River Flood Control District, and RD 1000. The member agencies work together towards providing flood protection to the entire area. Information is shared across the member agencies, as they are working towards the same protection.

Two RD 1000 board members serve as board members of SAFCA. RD 1000 has a mutual aid agreement with the County. During flood emergencies, the agencies share equipment, materials, and labor. RD 1000 also maintains a mutual aid agreement with the City of Sacramento.

8.3 LIBRARY SERVICES

The libraries in the cities and County of Sacramento are functionally consolidated into a single system. The Sacramento Public Library (SPL) is a joint powers agency between the cities of Sacramento, Citrus Heights, Elk Grove, Galt, Isleton, Rancho Cordova, and the County of Sacramento. SPL serves residents of these cities and throughout unincorporated Sacramento County. The SPL Authority works closely with other agencies and partners with them to provide efficient library services.

The North Natomas Library Branch is located on the campus of Inderkum High School and serves the High School, the Natomas Center of American River College, and the North Natomas community. The South Natomas Library Branch was built in conjunction with the Natomas Community Center in a residential development and services the North and South Natomas community. In addition, the two Natomas libraries have been constructed with expansion potential, allowing the facilities to be easily expanded according to future demand.

8.4 PUBLIC SAFETY SERVICES

The City of Sacramento's Police and Fire departments both operate their headquarter facilities from the Public Safety Center, located at 5770 Freeport Boulevard. This shared facility is consistent with existing General Plan policy that requires the City to seek to co-locate the City's facilities, such as police and fire stations, to promote efficient use of space. As such, the Public Safety Center was designed to be shared by both departments in order to reduce costs and increase operational efficiencies for both Police and Fire services. The City also maintains various mutual aid agreements with other regional public safety service providers. This includes the City and County's inter-agency agreements for emergency dispatch. Additionally, all of the Sacramento County fire agencies (Sacramento Fire Department, Sacramento Metro Fire District, Sacramento International Airport Fire, Cosumnes Fire District, and the Folsom Fire Department) share an automatic aid agreement that allows response from the closest fire unit regardless of jurisdiction.

8.5 DETERMINATIONS

Based on the information above, the following determination can be made:

- The City cooperatively partners with other agencies and special districts to provide a comprehensive level of municipal services for the City, which includes several types of shared resources and facilities.
- Additionally, SacSewer provides a comprehensive level of wastewater collection and treatment services to public jurisdictions throughout the Sacramento region, which constitutes a shared service that intentionally reduces service redundancies.

9. Government Structure and Accountability

The purpose of this section is to examine the organizational structure for the City of Sacramento, and SacSewer, their community service needs, and operational efficiencies, including an accountability assessment of each agency's transparency regarding its processes.

9.1 CITY GOVERNMENT STRUCTURE

The City of Sacramento is a charter City and was founded in 1849. It is the oldest incorporated City in the State of California. The City operates under a Council-Manager form of government and provides a comprehensive array of municipal services. These include public safety, streets, sanitation, culture, recreation, public improvements, planning and zoning, general administrative services, drainage and water utilities, transportation, and animal care.

9.1.A Mayor and City Council

The Mayor and City Council (City Council) is the highest governing and policy-making body for the City of Sacramento. This legislative body is comprised of eight District representatives, plus an elected Mayor that presides over Council meetings. Each Council member must be a registered voter and live in the District they represent. Elected members serve 4-year terms and elections are staggered every two years in even numbered years. There is no limit to the number of terms the Mayor or Council members may serve.

The City Council's primary goal is to govern the City in a manner that is financially sound and is responsive to the needs and concerns of City residents. They are responsible for passing City ordinances, providing administrative direction and authority through adoption of Resolutions, approving new programs, and approving the annual budget. In addition, the City Council acts as the City's Financing Authority, Housing Authority, Public Financing Authority, and Redevelopment Agency Successor Agency. They are also responsible for appointing key staffing positions including the City Manager, City Attorney, City Auditor, City Clerk, and City Treasurer, as well as the Director of the Office of Public Safety Accountability. (*City of Sacramento, FY2022/23 Approved Budget, June 2022, p. 136*) Upon approval of the SOI expansion area, the ASI project site would be incorporated into City Council District 1.

9.1.B City Manager

Sacramento's City Manager is the Chief Executive Officer of the City and is responsible for the leadership and direction of all operations, programs, and services, per City Charter. The City Manager facilitates the implementation of Council's policies and priorities, provides policy recommendations to the Council concerning the annual budget, future needs of the City, and oversight of all City Departments. The City Manager's office manages a wide-range of high-profile programs that handle issue-specific needs including: Innovation and Economic Development, Media and Communications, Cannabis Management, Government Affairs, Emergency Management, Youth Development, Diversity and Equity, Performance Management, and Climate Action and Sustainability. (*City of Sacramento, FY2022/23 Approved Budget, p. 164*)

The City Manager is also responsible for enforcing all laws and ordinances, coordinating all municipal programs and services, participating in City Council meetings without the right to vote, and informing the City Council regarding the City's operations and finances.

9.1.C Planning and Design Commission

The Planning and Design Commission functions as the City's first reviewing authority on land use decisions. It is comprised of nine members that are appointed by the City Council. The City's Subdivision and Zoning Ordinances (Titles 16 and 17) grant the Planning and Design Commission the authority to approve, conditionally approve, or deny variances, special permits, and development plan reviews; approve, conditionally approve, or deny Tentative Maps for subdivisions of five or more parcels, except for "Vesting Tentative Maps." The Commission also serves in an advisory role to the City Council regarding other planning matters including General Plan and Community Plan Amendments, Rezoning, Development Agreements, Planned Unit Development Permits, and Vesting Tentative Map applications.

9.1.D Advisory Commissions and Committees

The City's governmental structure also includes over 30 other Commissions and Committees that function as advisory legislative bodies to the City Council. Of these, some key legislative bodies relating to the City's governance and development structure include the Budget and Audit Committee, Law and Legislation Committee, Water Committee, Active Transportation Commission, Administration, Investment, & Fiscal Management Board, Measure U Community Advisory Committee, Parks and Community Enrichment Commission, Sacramento Community Police Review Commission, Sacramento Library Authority, and Utilities Rate Advisory Commission. Each advisory Commission and Committee has a specific purpose and focuses on matters within its purview, and collectively, these bodies provide recommendations to the City Council in consideration of new programs, policies, and initiatives.

9.2 CITY COMMUNITY SERVICE NEEDS & STAFFING LEVELS

Upon approval of the SOI expansion area, the ASI project would require municipal services from the City of Sacramento and other responsible Districts. This includes services for utility and flood control systems, roadways, animal care, code enforcement, public safety, solid waste, parks and recreation, and libraries. As noted in Section 6, service providers have been identified and are available to serve the ASI project.

The City's annual budget outlines the approved staffing levels for each department. Staffing levels are reviewed annually to ensure that staffing levels and funding are aligned with the City Council's priorities. For the 2021/22 fiscal year, the approved budget provided funding for approximately 4,891 positions, an increase of 8 positions from the year prior, as summarized in the table below.

Table 12: Approved Staffing for Fiscal Year 2022/23

Department	Approved Staffing
Mayor/Council	37.00
City Auditor	10.00
City Attorney	62.00
City Clerk	24.00
City Manager	70.00
City Treasurer	14.00
Community Development	315.00
Community Response	38.00
Convention and Cultural Services	123.00
Finance	93.90
Fire	729.50
Human Resources	83.00
Information Technology	201.50
Police	1128.96
Public Works	766.15
Utilities	572.90
Youth, Parks, and Community Enrichment	716.53
Citywide and Community Support	7.00
TOTAL	4,992.44

(City of Sacramento, FY2022/23 Approved Budget, p. 300)

9.3 CITY & SACSEWER OPERATIONAL EFFICIENCIES

City of Sacramento

As development occurs within the City’s annexation areas, the need for additional staffing, facilities, maintenance, and equipment increases. Both the City’s expanding budget and the rate increases proposed for various City services reflect the City’s growth and its aging infrastructure. The City’s annual budget outlines each department’s mission, current fiscal year objectives, and prior year’s accomplishments. Additionally, department-specific performance measures are summarized and past year data is detailed.

The City’s budget reflects the City Council’s priorities for public safety, economic development, culture and entertainment, sustainability and livability, and safe and affordable housing. Because the City follows a sustainable budget framework, yearly fiscal management activities include a comprehensive and continuous evaluation of spending priorities.

In the City’s approved 2022/23 Budget, each department identified various efficiencies that are being implemented to optimize operations and reduce costs. These include:

- **Mayor and City Council:** Utilized the 311 system and integrated constituent management system to support constituents in tracking neighborhood complaints and requests for service. (City of Sacramento, FY2022/23 Approved Budget, p. 137)
- **City Attorney:** 1) Continued to pursue the highest and best use of internal space within the suite by converting spaces previously used for office equipment and supplies for use by staff; 2) Reviewed and adjusted operating costs associated with in-person staffing, suspended charges such as monthly parking, and adjusted equipment leases to save money during office telecommute; 3) Arranged immediate availability of personal testing kits to provide for fast testing of any staff exposed to COVID-19 to ensure safety and maximum availability of staff; and 4) Incorporated the current COVID-19-related protocols

into office policies and practices in preparation for return-to-work in city spaces. (*City of Sacramento, FY2022/23 Approved Budget, June 2022, pp. 146-147*)

- **City Auditor:** 1) Continued agreement with Missionmark to explore the potential for development audit software that will streamline internal audit processes and reduce processing time; 2) Developed an online Whistleblower Hotline Dashboard that provides the public with interactive information on the status of whistleblower investigations; 3) Managed the online Recommendation Follow-Up Dashboard that provides the public with interactive information on the status of audit recommendations; and 4) Managed the online Gender and Ethnic Diversity Dashboard that provides the public with interactive data on the gender and ethnic composition of City employees. (*City of Sacramento, FY2022/23 Approved Budget, pp. 153-154*)
- **City Clerk:** 1) Continued the review of operations in the City Clerk's Office and Offices of the Mayor and Council for implementation of "best practices" for a more efficient workflow and accurate deliverables; 2) Continued utilization of the Citywide Content Management System for records management; 3) Provided training opportunities to City staff to maintain institutional knowledge and provided training on new policy and legal requirements to ensure compliance; 4) Continued evaluation and implementation of new and existing information technology tools to achieve sustainable services, increase transparency, and provide new records and data to the public with an emphasis on virtual access; and 5) Utilized Microsoft Teams for better collaboration and accountability between both in office and remote workers. (*City of Sacramento, FY2022/23 Approved Budget, p. 159*)
- **City Treasurer:** 1) Automated the daily cash flow process that links the City and banking data in real-time, thus improving accuracy and efficiencies; 2) Streamlined trade processing and implemented new reconciliation methods and procedures to ensure validity and reliability of investment records; and 3) Utilized a third-party consultant to proactively monitor on an ongoing basis the credit ratings and outlook of outstanding bonds, thereby freeing up City staff to focus on other debt management-related responsibilities. (*City of Sacramento, FY2022/23 Approved Budget, pp. 174-175*)
- **Community Development:** 1) The Building Division implemented automated status update emails to keep customers informed during the plan review process; 2) The Planning Division launched a new website called Agency Counter to inform the public of pending planning applications, which includes automatic emails when a new application is filed with the City; 3) The Front Street Shelter continues to offer services with or without an appointment, which leads to decreased wait times and improved customer service; and 4) The Front Street Shelter outsourced its pet licensing program to increase efficiencies, increase revenue, and offer better customer service for pet owners. (*City of Sacramento, FY2022/23 Approved Budget, pp. 181-182*)
- **Community Response:** 1) The Office of Homelessness Services (OHS) has improved the functionality of the Motel Voucher Programs (MVP) and developed an improved method of tracking Federal Emergency Management Agency (FEMA) eligibility amongst guests in the program, allowing it to maximize reimbursable costs associated with the program. Additionally, OHS was able to secure an additional hotel in the City, providing a wider network in the community to serve families and individuals in Non-Congregate shelter; 2) In May 2021, OHS re-engaged contracted Emergency Shelter providers in regular site visits, increasing support, and maximizing efficient oversight of funded programs; 3) Successfully implemented a 311 alternative response model. Calls for services are dispatched via the City's 311 system; and 4) Contracted with Forensiclean to provide cleanup services throughout the City. (*City of Sacramento, FY2022/23 Approved Budget, pp. 189-190*)
- **Convention and Cultural Services:** 1) The cold storage vault for the Center for Sacramento History was completed in January 2022. Two films in the City's series on the History of Racism in Sacramento were completed with two more in production to be completed by June 2022; 2) OAC transitioned its longstanding Any Given Child program to the Sacramento County Office of Education. The new partnership ensures the potential of expansion of that program throughout the county, while also freeing up staff time to refocus OAC's work in the education space at a more strategic level; 3) The SAFE Credit Union Convention & Performing Arts District implemented 24/7 software to track equipment and maintenance work completed; 4) The Memorial Auditorium boilers' refractories were repaired in-house by the department's engineering team, resulting in a savings of \$750,000 to the Community Center Fund; and 5) The Zoo has maintained many of the process improvements implemented in response to the pandemic, including encouraging touchless online advanced ticket sales, enhanced cleaning and safety protocols, and

streamlined menu options at the Kampala Café. In addition, in FY2021/22, the Zoo transitioned from an outsourced security contractor to an in-house security team, which both improves performance and reduces costs. (*City of Sacramento, FY2022/23 Approved Budget, p. 199*)

- **Finance:** 1) Implemented Automated Clearing House (ACH) payments with City vendors to reduce printing and processing time, improve productivity by automating a manual process, and realize cost savings by reducing check processing; 2) Added e-check payment capability which allows more businesses to pay taxes electronically; 3) Explored ways to optimize the use of districts and finance plans to build priority public improvements, fund services, and encourage private investment in the City; 4) Streamlined internal procurement processes and procedures using best practices to eliminate redundancies, increase staff effectiveness, and improve transparency; and 5) Worked with the City Treasurer to establish, implement, and streamline a wire transfer process for City department requests. (*City of Sacramento, FY2022/23 Approved Budget, pp. 209-210*)
- **Fire:** 1) Continued the use of the Emergency Vehicle Operator Course (EVOC) which provides the necessary knowledge and skill development for the safe operation of department apparatus; 2) The Fire Prevention Division is now using video technology to conduct virtual inspections; 3) The Department successfully launched a Youth Academy in October 2021 with 25 participants; 4) DOR Division launched a two-day fire camp for 33 high school girls, increasing the number of girls allowed to participate; and 5) Continued evaluations of the Emergency Medical Services (EMS) Division to determine cost effective measures that will provide proper service to the community. (*City of Sacramento, FY2022/23 Approved Budget, p. 217*)
- **Human Resources:** 1) Significantly revamped the recruitment, selection, and written examination processes, reducing the recruitment timeline by five to seven weeks; 2) Transitioned employment related medical exam scheduling to most departments, to streamline the process; 3) Completed annual open enrollment for employees and retirees using all web-based solutions; 4) Implemented ePARs for pay-rate changes (step and accelerated increases) and termination PARs; and 5) Workers' Compensation Unit implemented the paperless initiative to improve efficiencies, protect City Employees' personally identifiable information, cut down on the cost of postage and paper and strive for improved environmental sustainability. (*City of Sacramento, FY2022/23 Approved Budget, pp. 225-226*)
- **Information Technology:** 1) Implemented a Natural Language Interactive Voice Recognition (IVR) system for 311, allowing callers to speak and receive services without having to wait to speak to a 311 agent; 2) Automated hundreds of business processes throughout City departments; 3) Implemented internal efficiency processes such as the online Personnel Action Request process for hire and re-hire actions and other workflow based online processes that resulted in faster processing, more accurate information, and audit capabilities for improved transparency; and 4) The Department is committed to continuous improvement to reduce energy consumption and support the City's green initiatives. (*City of Sacramento, FY2022/23 Approved Budget, pp. 233-234*)
- **Police:** 1) Continued to evaluate and implement improvements to the hiring process, including implementation of the eSOPH backgrounds management system which is a cloud-based software system designed to efficiently process in-depth pre-employment background investigations; 2) The Department has worked collaboratively with the City and contractors to create promotional and hiring exams that are both gender and race neutral in alignment with the City's Workforce Equity Goals. Additionally, the hiring process has been converted to "blind applications" to ensure that biases are minimized or eliminated in the hiring and promotional process; 3) Continued to build upon the existing Administrative Services Division which among other units, includes the Professional Standards Unit, the Inspections and Standards Team and the Video Redaction Team; 4) The Department continues to expand and integrate the use of emerging technologies such as Police Observation Devices (PODs), Unmanned Aerial Systems (UAS), and the Real Time Crime Center (RTCC); and 5) Continued to work diligently to redact and release video, audio, and other records related to incidents which fall under the release requirements mandated by State laws. (*City of Sacramento, FY2022/23 Approved Budget, pp. 242-243*)
- **Public Works:** 1) The CNG station, partially funded through a Sacramento Air Quality Management District grant, will increase fueling efficiency time and costs for the City's waste collection fleet; 2) The City Hall Garage was re-opened after a fire to support the parking needs of surrounding businesses and employment centers; and 3) The Parking Division developed an online service and payment portal for

purchases of discounted Commuter Special parking. This provided local employees a flexible and contactless option to pay and plan for their parking needs ahead of time. (*City of Sacramento, FY2022/23 Approved Budget, p. 254*)

- **Utilities:** 1) Issued a Notice of Preparation for both the Groundwater Replacement and Water+ programs, both of which will provide future water supply projects for the City's groundwater and surface water supplies; 2) Substantially reduced overtime usage without impacting service levels by moving to a four day/week schedule for routine distribution system water quality monitoring; 3) Implemented over 78% of audit recommendations from audits conducted by the City Auditor's Office related to labor, inventory, safety, and fleet; 4) Created a Water Policy & Regional Planning section within Engineering and Water Resources to align strategic goals supporting the City's water rights and supply priorities with water use efficiency goals; 5) Improved the timeliness of vendor payments by creating a business intelligence dashboard, allowing for automated monitoring of pending invoices; and 6) Installed a secure and permanent power source in the Pocket Canal for canal aeration that reduced costs for daily fueling and delivery of portable generators. (*City of Sacramento, FY2022/23 Approved Budget, pp. 264-265*)
- **Youth, Parks, & Community Enrichment:** 1) Continue to engage with the Department's Park planning consultant in the development of the Parks Plan 2040 that addresses the City's commitment to Equity and Health within the park and recreation system. The projected completion date for the Parks Plan 2040 is Spring 2023, following the adoption of the City's General Plan Update; 2) Community Enrichment Division developed and implemented several organizational efficiencies to support internal and external customer service and communications; 3) Community Centers mobilized staffing and resources to continue serving the community through the pandemic with great success, providing critical community resources and services including year-round COVID-19 vaccine clinics in partnership with Sacramento County and UC Davis Health, administering more than 15,000 doses, and emergency response support through activation of clean air, warming and cooling centers; 4) Addressed deferred maintenance issues at several pools including the completion and initiation of resurfacing projects to support safe reopening and operations, and the installation of the Clunie pool's heater and facility updates to allow extended season aquatics safety program opportunities; 5) With the onset of the pandemic, YPCE mobilized staffing and resources to continue serving the community with great success, including the development and implementation of an online virtual activities and resources page to engage and serve people of all ages and abilities, meal service and food distribution for thousands of youths, seniors, and underserved families, and face covering distribution for independent businesses across Sacramento; and 6) YPCE partnered with Geographic Information Systems (GIS) team to map park amenities and land uses. GIS applications provide Department, City staff and the public a method to easily access and share geographic information. The database allows coordination across all divisions using the same data to support asset management and administrative functions. (*City of Sacramento, FY2022/23 Approved Budget, pp. 272-273*)

SacSewer

Operational efficiencies are identified in SacSewer's Operating Fund Budgets via undesignated cash reserves (surplus), which are an indication of short-term financial strength. The estimated ending balance of undesignated cash reserves, prior to the Sacramento Regional County Sanitation District and Sacramento Area Sewer District consolidation that went into effect January 1, 2024, for the 2022-23 Operating Fund budget was over \$33M for Regional San and over \$63M for Sac Sewer.

9.4 SACSEWER GOVERNMENTAL STRUCTURE

SacSewer is governed by a Board of Directors that is responsible for the entity's policymaking, budgeting, and organizational decisions. SacSewer's Board consists of five Sacramento County Supervisors, five Sacramento City Councilmembers, two Elk Grove councilmembers, and single representatives from Yolo County and the cities of Citrus Heights, Folsom, Rancho Cordova, and West Sacramento. SacSewer's Board consists of five Sacramento County Supervisors and the Mayors (or designees) of the cities of Citrus Heights, Elk Grove, Folsom, Rancho Cordova, and Sacramento. The agency holds its Board meetings the second and fourth Wednesday of each month, which are recorded, live streamed, and open to public attendance and comment.

9.5 PROCESS TRANSPARENCY

As noted above, the City operates under a Council-Manager form of government. Sacramento's governmental structure gives the City Council the final authority for decisions for Citywide policies, priorities, and budget. Their actions are supported by several advisory Commissions/Committees and by the City Manager office's oversight and implementation of laws and priorities. All governmental decision-making bodies hold public meetings and hearings to ensure that the citizens of Sacramento have the opportunity to participate in the decision-making process.

The City Council generally holds its regular meetings on Tuesdays of each week at City Hall in downtown Sacramento. Meetings typically consist of an afternoon and/or evening session and are live-aired on television and live-streamed via the City's website. Recordings are available for review following each meeting's conclusion. The Council also holds special public meetings and committee meetings. The City Clerk's office publishes City Council agendas in a variety of formats and makes them available to the public prior to each meeting.

The Planning and Design Commission generally meets on the 2nd and 4th Thursdays of each month. Meetings are open to the public and are publicly-noticed in accordance with the City Code. There is a 10-day appeal period after action by the Planning Commission. If a Planning Commission action is not appealed, it is final. If a Planning Commission action is appealed, the matter is forwarded to the City Council for consideration and City Council's action on the appeal is final.

Meetings for the City's various advisory Committees and Commissions each follow a pre-established schedule and are open to the public. Agendas and/or public hearing notices for all meetings are posted in a variety of formats and made available to the public prior to each meeting in accordance with the City Code.

Similar to the City of Sacramento, SacSewer maintains a routine schedule for Board meetings. Board meetings are typically held on the second and fourth Wednesday of each month at 9:30 a.m. at the Sacramento County Board of Supervisors' Chambers, located at 700 H Street in Sacramento. Agendas and/or notices for all meetings are posted in a variety of formats and made available to the public prior to each meeting. Meetings are live-streamed and open to public attendance. Members of the public are invited to attend and participate in Board meetings. Additionally, each year, SacSewer prepares extensive reports to ensure operational transparency and public involvement. These include a State of the District Report, Fiscal Year Budgets, Annual Comprehensive Financial Reports, and 5-year Strategic Plan that is prepared with an extensive participatory process to identify long-term goals with a strategic focus.

9.6 DETERMINATIONS

Based on the information above, the following determinations can be made:

- The City of Sacramento's governmental structure has a long-standing history of public/citizen interaction. The Mayor, City Council, City Manager, appointed Commissions and Staff put forth a strong effort to ensure that the citizens of Sacramento, other local, State and Federal governmental agencies, special interest groups and labor unions are fully involved in the City's decision-making process.
- The City of Sacramento's staffing levels are reviewed annually through the budget process to ensure that staffing meets the City's service needs and Council priorities, and this process allows for staffing adjustments to be made in order to provide for the expansion of municipal services to the SOI expansion area.
- Through the City's annual budget process, department review current operations and evaluate opportunities to implement changes that enhance their operational efficiencies.
- The City provides municipal services that will meet the future service needs associated with development of the ASI project in the SOI expansion area. Where the City is not the lead provider of a service, other agencies/districts will provide services consistent with current practices within the City.
- SacSewer maintains a governmental structure that is administered by a Board of Directors, consisting of elected officials from the public agencies that benefit from these entities' public service.
- The City of Sacramento and SacSewer each maintain a system of transparent governmental processes that are designed to incorporate public review, input, and involvement.

10. Conclusions

This Targeted Municipal Services Review (MSR) has been prepared to assist the Sacramento Local Agency Formation Commission (LAFCO) in its evaluation of an application for a Sphere of Influence (SOI) Amendment for the City of Sacramento (City), and Sacramento Area Sewer District (SacSewer), in order to accommodate the proposed Airport South Industrial (ASI) project. It complies with the Cortese-Knox-Hertzberg Act and it evaluates existing and future service conditions for the project site and proposed SOI expansion area described herein. As such, this MSR addresses the following public service/issue areas (**noted in blue**) and includes key findings and determinations for each (*noted in italics*):

- **Growth and Population Projections:** *The City of Sacramento is expected to continue growing, by adding jobs, housing, and a residential population.*
- **Disadvantaged Unincorporated Communities:** *No defined disadvantaged unincorporated communities are located on, or adjacent to, the project site.*
- **Public Facilities and Services:** *This MSR provides a detailed assessment for facilities and services related to water, wastewater, circulation and roadways, animal care, code enforcement, law enforcement, fire protection, solid waste, storm drainage and flood control, parks and recreation, libraries, and electricity & natural gas. As summarized herein, the City of Sacramento, in tandem with other agencies and SacSewer has the ability to expand its public facilities and municipal services to the proposed SOI expansion area in order to serve development of the proposed ASI project.*
- **Financial Ability to Provide Services:** *The City of Sacramento operates with a balanced budget, and as outlined in the ASI Public Facilities Financing Plan, has the financial ability to provide municipal services to the proposed ASI project.*
- **Shared Facilities Opportunities:** *The City of Sacramento, and SacSewer actively pursue opportunities to enhance operational efficiencies, and as such, cooperatively partner with other agencies and special districts to provide a comprehensive level of municipal services, which includes several types of shared resources and facilities.*
- **Government Structure and Accountability:** *The City of Sacramento operates with a transparent governmental structure that emphasizes public involvement in its decision-making processes.*

These findings and determinations are supported by the detailed information for each of these public service/issue areas, as outlined throughout this MSR.

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12. List of Appendices

Appendix A: Airport South Industrial Preliminary Site Plan, dated June 20, 2022

APPENDIX L

Airport South Industrial Preliminary Water Study

City of Sacramento, California

ACCEPTED BY:
Emmerson Zapata &
Megan Thomas
June 5, 2023

Revised on 2/7/24 with
note to file.

Prepared For:

City of Sacramento Department of Utilities

NOTE TO FILE: The transfer of the 4700 linear feet of 30-inch water transmission main to the City from the Sacramento County Water Authority will require reimbursement to the County for the depreciated value of the transmission main. As of January 19, 2024, the depreciated value of the water transmission main is estimated at \$1,012,502.78. During plan review, additional discussion between the County, City, Sacramento International Airport and Developer will be required regarding this matter. If an agreement is not reached and the transfer of ownership of the 30-inch water t-main does not occur, a revised design of the water system for the Airport South Industrial will be required.

May 11, 2023



Prepared By:



WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME

TABLE OF CONTENTS

I.	INTRODUCTION AND PURPOSE	1
II.	PROJECT DESCRIPTION	1
III.	EXISTING WATER FACILITIES	2
IV.	PROPOSED WATER FACILITIES	2
V.	SYSTEM MODELING	3
	A. System Modeling – Water System Boundary Conditions	3
	B. System Modeling – Assumptions	4
	C. System Modeling – Results.....	4
VI.	EXHIBITS	6
VII.	APPENDICES	6

TABLES

Table 1 – Land Use	4
Table 2 – Demand Summary	4
Table 3 – System Results	5

I. INTRODUCTION AND PURPOSE

This preliminary water study (Study) report has been prepared to provide information for the Airport South Industrial (ASI) Project (Project). This Study has been prepared to analyze the proposed water infrastructure associated with the development of a future 436.5-acre planned industrial warehouse and highway commercial project in the City of Sacramento. This Study addresses proposed land uses, potable water system hydraulics, and proposed infrastructure-level improvements for the Project. Work included herein includes an Innovyze Infowater hydraulic model analysis of the conceptual piping system which was sized and laid out per the City of Sacramento (City) comments that were sent on March 9, 2023. This Study report is intended to provide the information needed for the entitlement application and processing, including the preparation of an Environmental Impact Report (EIR) for the Project. This work will include coordination with the City regarding the development of a preliminary water plan. This Study report is intended to provide a description of the potential options of the on-site and off-site water system improvements. A design-level hydraulic analysis will be provided in conjunction with Project development subsequent to Project approvals.

The Project area totals approximately 436.5 acres and is located along Bayou Road south of Interstate 5 (I-5). The Project location is currently within the county of Sacramento. **Exhibit A** is a Regional Map illustrating the location of the Project. The property lies south of I-5 and south and east of the Sacramento International Airport (SMF). Metro Air Park (MAP), a 1,892-acre Industrial Business Park, lies directly to the north of I-5. The Northlake (formerly Greenbriar) project lies north of I-5 and is northeast of the Project. The North Natomas Community Plan (NNCP) in the city of Sacramento, comprising approximately 7,440 acres, is east and southeast of the Project area. Agricultural and North Natomas habitat mitigation lands lie south of the Project. Undeveloped Airport Master Plan Development lands owned by SMF in the county of Sacramento are west and southwest of the Project area. The east boundary of the Project area is the City/County boundary. This includes a 200-foot-wide City of Sacramento-owned buffer along the eastern boundary of the Project. Phase 1 of the new MAP Interchange has been completed on I-5, which is directly north and comprises a portion of the Project area.

The Project is proposed for annexation from the County into the City of Sacramento. The City of Sacramento is the lead agency for the project annexation and entitlements. The Project area has multiple landowners. NP MAP Land Holding Company, LLC (NorthPoint Development) and AKT Investments are the Applicants and are sponsoring the entitlements for the Project.

II. PROJECT DESCRIPTION

Exhibit B illustrates the current site plan for the Project. The Project annexation area totals 474.4 acres. This is inclusive of the State of California Department of Transportation (Caltrans) lands measured roughly to the center of I-5 and includes the south approximate one-half of the new MAP Interchange. The west boundary extends to the approximate centerline of Power Line Road. Total Caltrans I-5 Right-of-Way (R/W) totals approximately 37.9 acres. This leaves approximately 436.5 gross acres of lands proposed for development. **Exhibit C** details the proposed land uses for the

Project. The developable lands proposed for entitlements total approximately 436.5 acres. The Project will include development of an industrial park and highway commercial areas. Developable areas will include warehousing, highway commercial, internal roadways, parking, detention/retention basins, buffer areas, sewer and drainage pump stations and other related facilities. The industrial buildings total an estimated 6,609,300 square feet (SF). The highway commercial totals an estimated 80,940 SF. The Project is largely made up of the Applicant-sponsored area and includes other future industrial lands not under ownership by the Applicants.

III. EXISTING WATER FACILITIES

Exhibit D identifies the existing water facilities in the vicinity of the Project site. When annexed, the City will be responsible for providing potable water to the Project. The City of Sacramento has a 30" water transmission main that terminates at the east end of the proposed project in South Bayou Way. This 30" transmission main was originally constructed to "wheel" City of Sacramento water to the west and north to County of Sacramento lands, namely SMF and MAP.

From a metering station that is currently located directly east of the Project site in South Bayou Way, the County of Sacramento (Zone 50) has extended a 30-inch and 16-inch Transmission Main to the west. This system tees to an existing 24-inch T-main crossing north under I-5 (approximately mid-Project) to serve MAP. The County system includes a dual 1.4 MG County Zone 50 Water Tank site located on the west side of Power Line Road.

It is currently proposed that this County system continue to operate as a separate system. The County's 30-inch Zone 50 T-main east of the 24-inch tee is proposed for conversion to a City T-main. This T-main will then serve the project area. The Project will construct a separate City-operated and maintained domestic and fire system connected to the City's 30" T-Main "upstream" of the relocated City/County metering station and will have two more connections in Bayou road just east of the convergence of the 24-inch main and the flow control valve. The proposed water system is further described below.

It should be noted that per the City's direction, a point of connection was added at Lanfranco Circle to the Westlake subdivision. This point of connection provides a large amount of flow and head to the project due to its pumping system and 3 MG storage capacity of the El Centro Reservoir.

IV. PROPOSED WATER FACILITIES

The proposed water system is identified on **Exhibit E**. As stated previously, there are 3 connections to the existing 30-inch City main. Per the City's comments, a 12-inch distribution line is to connect to the 30" transmission main and serve the site through ASI Drive. One of the connections in Bayou Way connects back to the public system in ASI Drive while the other connection helps create a looped system by running parallel with the City transmission line in Bayou Way and connects to the public distribution main at the western portion of ASI Drive. It should be noted that the distribution main that runs parallel with the City transmission line will be on private property, so an easement will be required. In order to create more looped connections, a 12-inch line was modeled in Metro

Air Parkway to connect the two public distribution mains. Another connection is made at Lanfranco Circle per the City's direction. A 12-inch line connects to the Lanfranco Circle point of connection, which was provided by the City, and connects to the main in ASI Drive. It is important to note that there will be no City connections to the County Zone 50 system.

12-inch loops were modeled around the private lots to represent private water infrastructure. However, this infrastructure was not a part of this study and instead will be further analyzed during later design-level analysis.

V. SYSTEM MODELING

As stated previously, the proposed water system was modeled using the Innowyze Infowater hydraulic modeling software (version 12.4.13). The proposed Project's domestic and fire demands were identified, calculated and input into the system model. The regional City system is shown on **Exhibit F**. Note that the nearest existing City water storage tank is located 4,800 feet south and east of the Project along El Centro Road and has a storage capacity of 3 million gallons (MG). The Lanfranco Circle point of connection is currently fed by the El Centro Reservoir and has pumping capacity as shown in **Exhibit F**. The potential layout for this development can be seen in **Exhibit G**. This layout was developed in accordance with the City's comments and focuses on only the public water mains that will serve the project. For visual purposes, an illustration to show the layout of the public mains vs the private mains can be seen in **Exhibit J**. It should be noted that this is a preliminary study and further analyses will be needed to refine the system configuration and confirm the hydraulic results presented herein.

A. System Modeling - Water System Boundary Conditions

As illustrated in **Exhibit F**, the Project site is located just south of Northlake (formerly Greenbriar). The Project will connect at the 30" Transmission main at three points in South Bayou Road as shown in **Exhibit G**. There is also a boundary condition modeled for Lanfranco Circle per the City's direction.

For this preliminary hydraulic analysis, the City provided a graphic showing the pressure rating curve at the connection point in Bayou Road. This updated boundary condition that takes into consideration the full build-out and losses from Northlake (formerly Greenbriar). Since this boundary condition takes into consideration all infrastructure for Northlake (formerly Greenbriar) and the other existing entities, the Northlake (formerly Greenbriar) modeling entities were omitted from this study. For the Lanfranco Circle boundary condition, the City provided a graphic showing the pressure rating curve at the connection point. It should be noted that the model is only capable of representing flow and head (or hydraulic grade line, HGL), so a conversion was performed to convert the data as required. The boundary conditions at Bayou Road and Lanfranco Circle can be seen in **Appendix D**.

B. System Modeling – Assumptions

Land use for the Project was assumed based on a preliminary site plan and land use summary which can be seen in both **Exhibit B** and **Exhibit C**. A breakdown of the land use utilized in this model can be seen in the following table.

Table 1 – Land Use	
Land Use Designation	Total Net Acreage
Mixed Use	13.4
Industrial	236.5
Future Industrial	83
Total	332.9

Node elevations were assumed to be at street elevation and were based on the preliminary earthwork exhibit included in **Appendix B**. The Project site was assumed to be under the industrial and mixed-use zoning classification. This assumption was used to calculate water demands for the Project site using the demand factors provided in the “City of Sacramento 2018 Water Study Manual” included as **Appendix C**. A summary of those demands is presented below in **Table 2**.

Table 2 – Demand Summary						
Land Use Designation	Total Net Acreage	ADD Unit Water Demand		Demand (gpm)		
		AFY/Acre	GPM/Acre	ADD	MDD	PHD
Mixed Use	13.4	2	1.24	17	33	43
Industrial	236.5	0.9	0.56	132	264	343
Future Industrial	83	0.9	0.56	46	93	120
Total	332.9	-	-	195	390	507

For fire flow requirements, Wood Rodgers used planning numbers that can be found in the “City of Sacramento 2018 Water Study Manual” per the City’s direction. Any node that was near an industrial lot was assigned a fire flow of 4,500 gpm since they would need to serve the industrial lots fire flow. For the mixed-use buildings, a fire flow of 3,500 gpm was assigned to align with the City requirements.

C. System Modeling – Results

After modeling the system per the City’s comments, it was determined that the system worked with its current boundary conditions and infrastructure. The 12-inch distribution main was able to convey the flow without pressures dropping below the City standard and without velocities reaching speeds of over 10 ft/s. Although the piping meets these standards, it does not meet the maximum headloss requirement of 10 ft/kft. However, after discussion with the City, this design variance would be acceptable due to the velocities still meeting the requirement.

This infrastructure was modeled per the City’s comments. These comments determined the public infrastructure and noted to omit the private infrastructure for this Study. Although the model was updated to include only the public infrastructure, the model still needed to be

analyzed to ensure it could convey the demand of the future buildings. See **Exhibit J** for the private vs. public layout showing the potential future connections to private infrastructure. Nodes near industrial lots were assigned a fire flow of 4,500 gpm since they would ultimately need to convey this flow. Once the fire flows were assigned, a system wide fire flow was run in order to check the residual pressures to ensure they were above the City requirement of 20 psi. The residual pressures can be seen in **Exhibit H**. After a system wide fire flow was run, the critical node was identified (ASI-154) and a static fire flow was run to analyze the fire flows effects on the pipes. The results for this run can be seen in **Exhibit I**. It should be noted that the pipes were able to convey the flow without going over the maximum velocity of 10 ft/s per the City’s requirement.

System Modeling

This layout considers having a public looped system with 4 connections (3 at the 30-inch transmission main and 1 at Lanfranco Circle) and a looped system using 12-inch distribution mains. This looped system will later serve the private infrastructure through double check valve assemblies once further design analysis are conducted.

It is important to note that the node elevations used in the model are assumed to be at the ground elevation in the street. These elevations are still in the concept phase, and any alteration to the elevations could negatively affect the pressures. **Table 3** below contains a summary of the hydraulic model results for the project site. The results are compared to the design criteria provided by the City Water Study Manual.

Table 3 - System Results		
Scenario	City Criteria	Model Results
Average Day Demand Condition		
Minimum Pressure [psi]	30	51
Maximum Pressure [psi]	80	57
Maximum Head loss [ft/kft]	7	0.0
Maximum Velocity [ft/sec]	5	0.2
Minimum Velocity [ft/sec]	0.1	0.0
Maximum Day with Fire Flow Demand Condition		
Minimum Pressure at Fire Node [psi]	20	26
Maximum Head loss [ft/kft]	10	14
Maximum Velocity [ft/sec]	10	7
Peak Hour Demand Condition		
Minimum Pressure [psi]	30	51
Maximum Head loss [ft/kft]	7	0.1
Maximum Velocity [ft/sec]	7	0.6

Due to the nature of the Project land use (primarily Industrial), the potable demands are relatively small as compared to the high fire flow requirements for these large structures. Due to the extreme differences between potable and fire flow demands, some parts of the system do not meet the minimum velocity requirement for average day demand. However, the pipes were sized in order to convey the large industrial fire flows. **Exhibit H** shows the results of a maximum day plus fire flow. As illustrated, the public system is able to maintain a residual pressure of 20 psi when loaded with a 4,500 gpm fire flow. However, as mentioned before, once the critical node (ASI-154) was loaded with 4,500 gpm the public system fails to meet the cities minimum requirements for residual pressure and ft/kft. However, per the City's direction, this may be an acceptable design variance due to the fact that the pipes are able to convey this flow without going over the maximum velocity of 10 ft/s, these results can be seen in **Exhibit I**. Tabular results for this study can be seen in **Appendix A**.

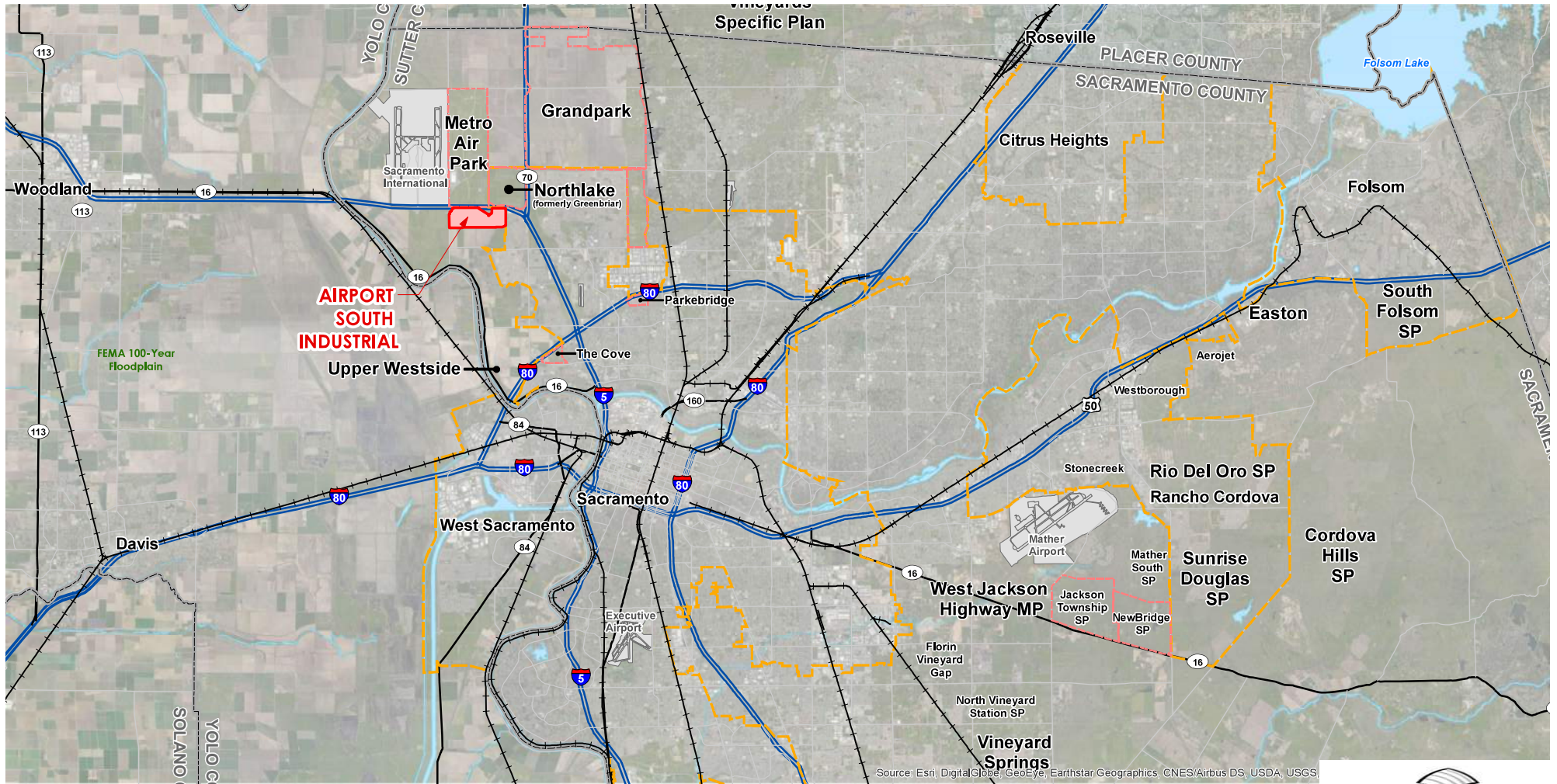
VI. EXHIBITS

- Exhibit A – Regional Location Map
- Exhibit B – Preliminary Site Plan
- Exhibit C – Land Use Table
- Exhibit D – Existing Water Facilities
- Exhibit E – Proposed Water Facilities
- Exhibit F – Regional City Water System Layout
- Exhibit G – System Layout
- Exhibit H – System Residual Pressure (MDD +FF)
- Exhibit I – System Static Fire Flow Results (MDD+FF)
- Exhibit J – Public and Private System Layout

VII. APPENDICES

- Appendix A – System Hydraulic Model Output Results
- Appendix B – Preliminary Earthwork Exhibit
- Appendix C – City of Sacramento 2018 Water Distribution System Criteria
- Appendix D – Boundary Conditions

EXHIBIT A REGIONAL LOCATION MAP AIRPORT SOUTH INDUSTRIAL



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

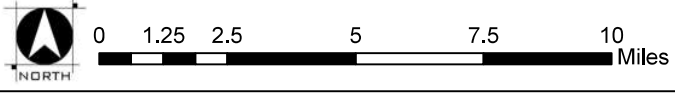
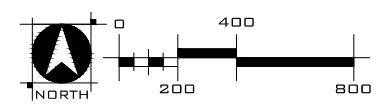
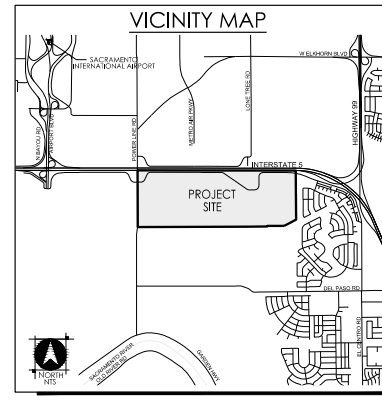
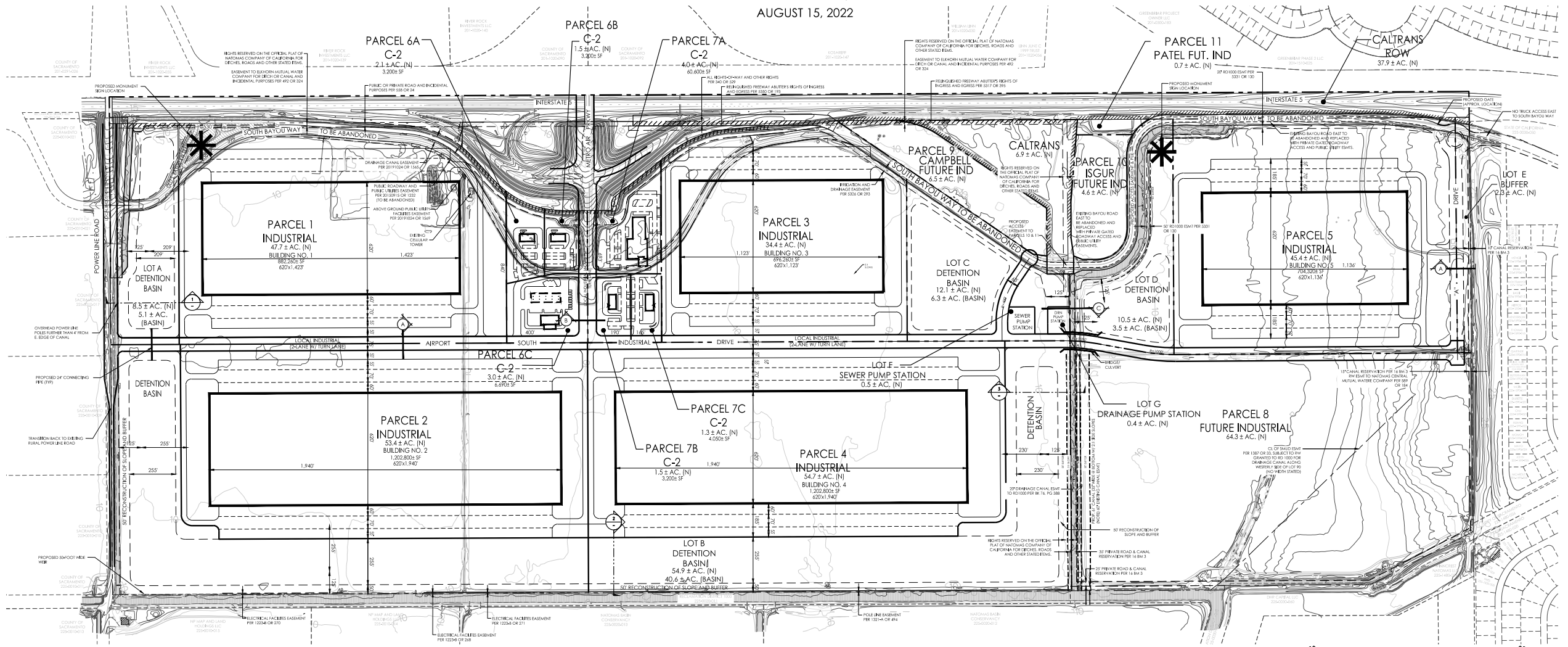
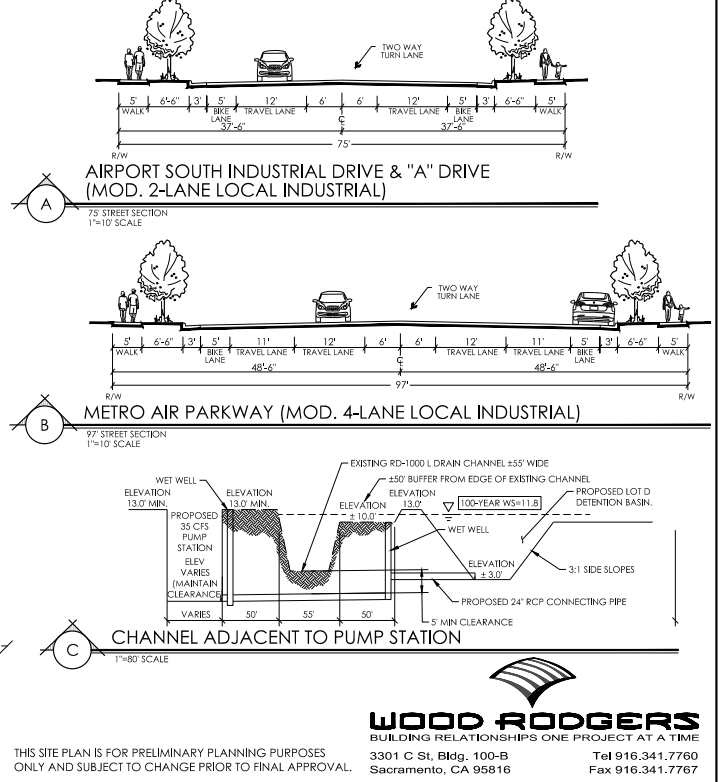
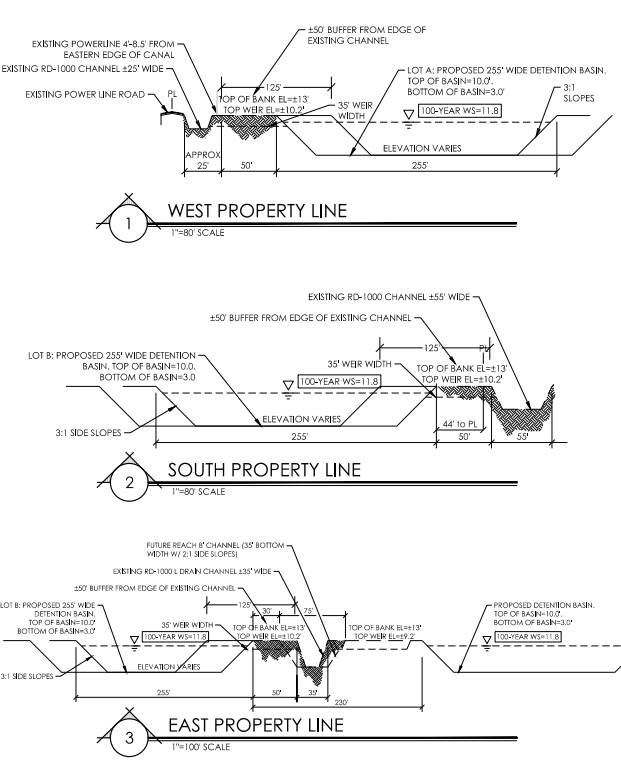


EXHIBIT B
PRELIMINARY SITE PLAN
AIRPORT SOUTH INDUSTRIAL
 CITY OF SACRAMENTO, CALIFORNIA
 AUGUST 15, 2022



LAND USE SUMMARY									
Site Plan Lot Number	Land Owner	Proposed Land Use	GP Designation	Zone	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands									
1	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	43.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	34.4	696,260	0.46	Calculated	772,900
4	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	45.4	704,320	0.36	Calculated	781,800
Subtotal Warehouse					235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	EC-Low Rise (FAR: 0.15-1.0)	C-2	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	EC-Low Rise (FAR: 0.15-1.0)	C-2	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.3	4,050	0.07	Calculated	5,000
Subtotal Retail Commercial					13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Detention Basin	Industrial	M-1	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	Industrial	M-1	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	Industrial	M-1	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	Industrial	M-1	0.4	-----	-----	-----	-----
Subtotal Public Facilities					89.2	-----	-----	-----	-----
Subtotal Internal Roadways					15.3	-----	-----	-----	-----
Subtotal Internal Roadways					15.3	-----	-----	-----	-----
Total for Applicant Sponsored Lands					353.5	4,769,380.0	0.31	Average	5,302,700.0
Future Industrial Lands									
8	Cayocca	Future Industrial	Industrial	M-1	64.3	980,318	0.35	Estimated	1,088,200
9	Campbell	Future Industrial	Industrial	M-1	6.5	99,999	0.35	Estimated	110,000
10	Isgur	Future Industrial	Industrial	M-1	4.6	70,132	0.35	Estimated	77,900
11	Patel	Future Industrial	Industrial	M-1	0.7	10,672	0.35	Estimated	11,900
-----	Caltrans Remnant	Future Industrial	-----	-----	6.9	105,197	0.35	Estimated	116,800
Subtotal					83.0	1,265,418	0.35	Check Average	1,404,800
Subtotal Developable Lands (Warehousing/Distribution)					318.6	5,953,858	0.43	Average	6,609,300
Subtotal Developable Lands (Highway Commercial)					13.4	80,940	0.14	Average	98,200
Subtotal Developable Lands (Public Facilities and Internal Roadways)					109.5	-----	-----	-----	-----
Total Developable Lands					436.5	6,034,798	0.32	Average	6,707,500
Caltrans I-5 Fee Title R/W					37.9	-----	-----	-----	-----
Grand Total					474.4	-----	-----	-----	-----

Notes:
 1. Net acreage used in order to estimate Building Square Footage information and / or calculate the FAR.
 2. Internal Roadways include ASI Drive, Metro Air Parkway and Power Line Road.
 3. Caltrans I-5 Fee Title Lands included in the land proposed for annexation to the City of Sacramento
 4. Sq-Ft for building coverage 1) based on the site plan for Applicant Lands and 2) calculated based on an average FAR for Future Industrial Lands.
 5. Application of a 11% factor applied to the industrial lands and 21% added to the retail / commercial lands to arrive at the planning level estimated totals.



THIS SITE PLAN IS FOR PRELIMINARY PLANNING PURPOSES ONLY AND SUBJECT TO CHANGE PRIOR TO FINAL APPROVAL.

WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 3301 C St. Bldg. 100-B Sacramento, CA 95816 Tel 916.341.7760 Fax 916.341.7767

PRELIMINARY SITE PLAN - AIRPORT SOUTH INDUSTRIAL

EXHIBIT C
Airport South Industrial
Land Use Summary
 20-Jun-22

Site Plan Lot Number	Land Owner	Proposed Land Use	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands							
1	NorthPoint / AKT Investments	Warehouse Distribution	47.7	882,260	0.42	Calculated	979,400
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4	NorthPoint / AKT Investments	Warehouse Distribution	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	<u>45.4</u>	<u>704,320</u>	0.36	Calculated	<u>781,800</u>
Subtotal Warehouse			235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	<u>1.3</u>	<u>4,050</u>	0.07	Calculated	<u>5,000</u>
Subtotal Retail Commercial			13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Detention Basin	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Detention Basin	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Detention Basin	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Detention Basin	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	<u>0.4</u>	-----	-----	-----	-----
Subtotal Public Facilities			89.2	-----	-----	-----	-----
-----	NorthPoint / AKT Investments	Internal Roadways	<u>15.3</u>	-----	-----	-----	-----
Subtotal Internal Roadways			15.3	-----	-----	-----	-----
Total for Applicant Sponsored Lands			353.5	4,769,380.0	0.31	Average	5,302,700.0
Future Industrial Lands							
8	Cayocca	Future Industrial	64.3	980,318	0.35	Estimated	1,088,200
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Subtotal			83.0	1,265,418	0.35	Check Average	1,404,800
Subtotal Developable Lands (Warehousing/Distribution)			318.6	5,953,858	0.43	Average	6,609,300
Subtotal Developable Lands (Highway Commercial)			13.4	80,940	0.14	Average	98,200
Subtotal Developable Lands (Public Facilities and Internal Roadways)			104.5	-----	-----	-----	-----
Total Developable Lands			436.5	6,034,798	0.32	Average	6,707,500
Caltrans I-5 Fee Title R/W			37.9	-----	-----	-----	-----
Grand Total			474.4	-----	-----	-----	-----

Notes:

1. Net acreage used in order to estimate Building Square footage information and / or calculate the FAR.
2. Internal Roadways include ASI Drive, Metro Air Parkway and Power Line Road.
3. Caltrans I-5 Fee Title lands included in the land proposed for annexation to the City of Sacramento
4. Sq-Ft for building coverage 1) based on the site plan for Applicant lands and 2) calculated based on an average FAR for Future Industrial Lands.
5. Application of a 11% factor applied to the industrial lands and 21% added to the retail / commercial lands to arrive at the planning level estimated totals.

EXHIBIT D
 EXISTING WATER FACILITIES
AIRPORT SOUTH INDUSTRIAL
 CITY OF SACRAMENTO, CALIFORNIA

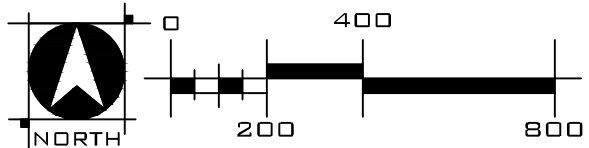
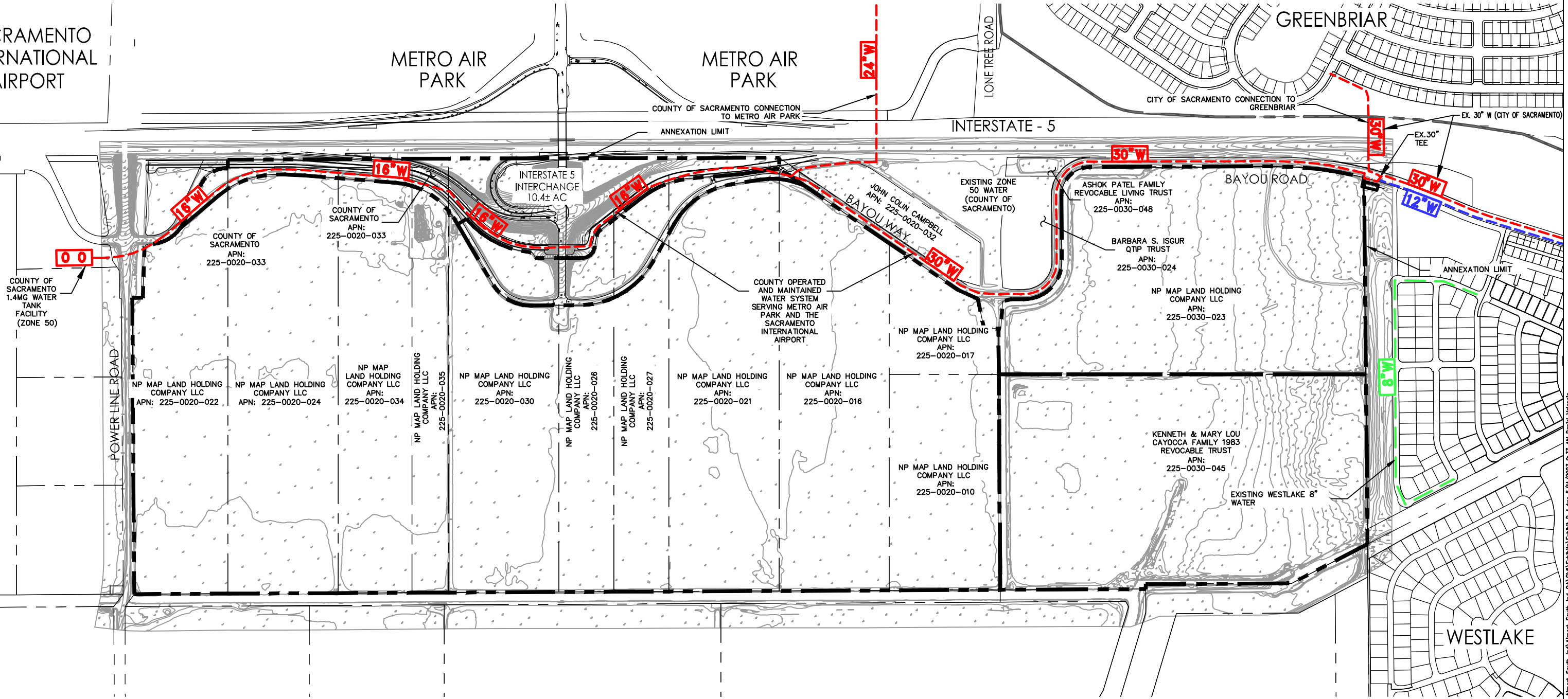
SACRAMENTO INTERNATIONAL AIRPORT

METRO AIR PARK

METRO AIR PARK

GREENBRIAR

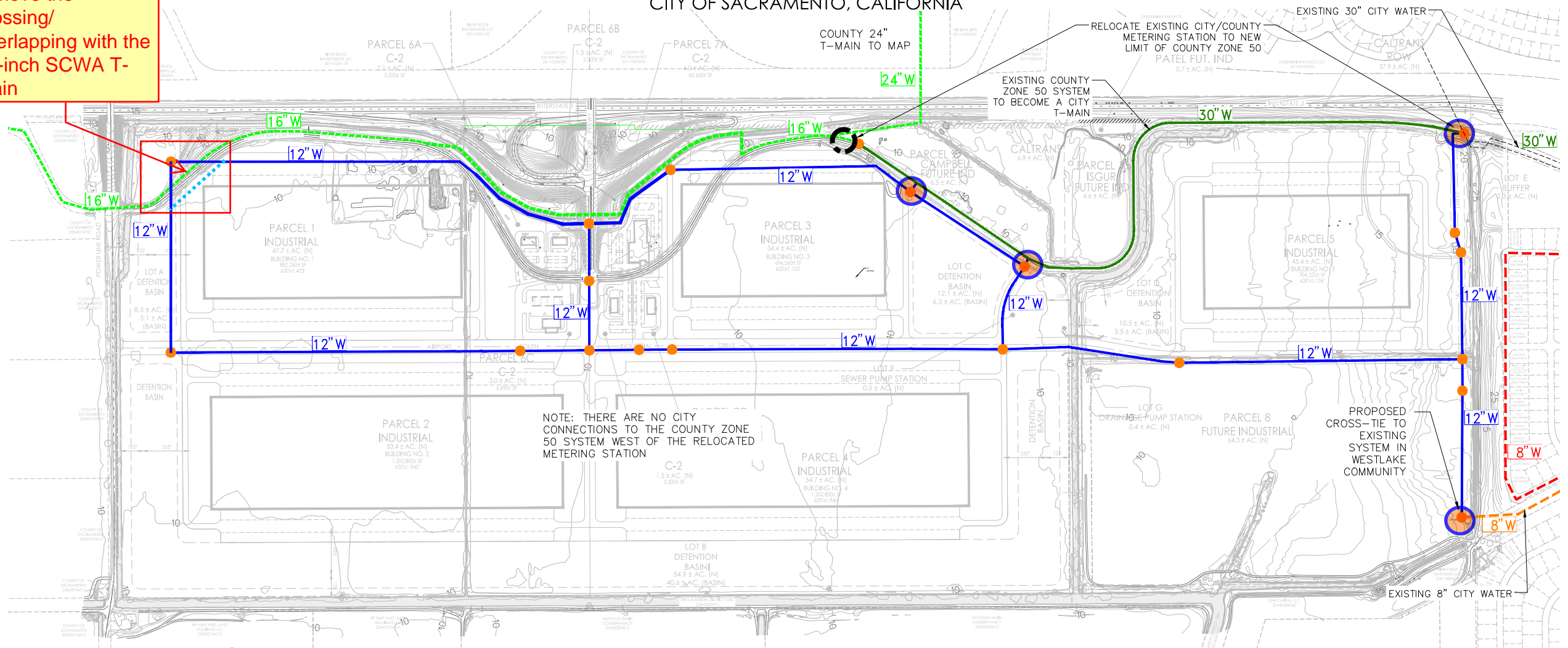
WESTLAKE



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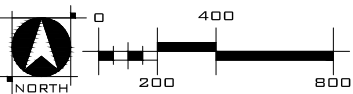
EXHIBIT E PROPOSED CITY/COUNTY WATER SYSTEM AIRPORT SOUTH INDUSTRIAL CITY OF SACRAMENTO, CALIFORNIA

remove the crossing/
overlapping with the
16-inch SCWA T-
main



LEGEND

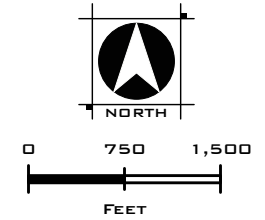
- EXISTING COUNTY T-MAIN (ZONE 50)
- COUNTY 30" WATER LINE (TO CITY)
- PROPOSED 12" CITY DISTRIBUTION MAIN
- WESTLAKE 8" WATER LINE
- PROPOSED WESTLAKE CONNECTION
- PROPOSED JUNCTION
- APPROXIMATE METERING STATION RELOCATION
- PROPOSED 12" CONNECTION TO CITY SYSTEM



THIS SITE PLAN IS FOR PRELIMINARY PLANNING PURPOSES ONLY AND SUBJECT TO CHANGE PRIOR TO FINAL APPROVAL.

EXHIBIT F
REGIONAL WATER SYSTEM LAYOUT

AIRPORT SOUTH INDUSTRIAL
SACRAMENTO, CALIFORNIA



Legend

- Reservoirs
- Existing Water Mains
- - - Proposed Water Mains
- Project Boundary
- Parcels
- City Limits

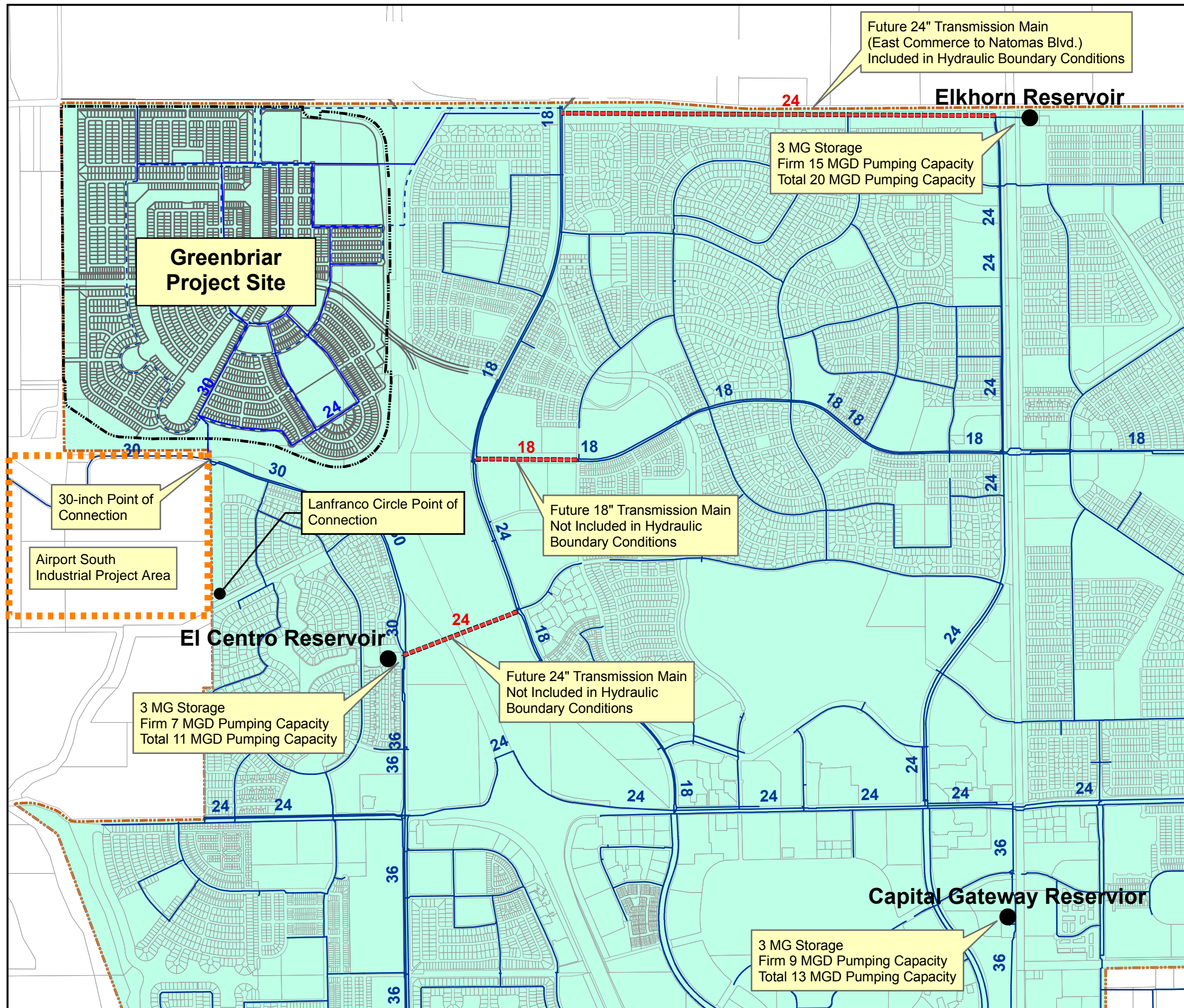
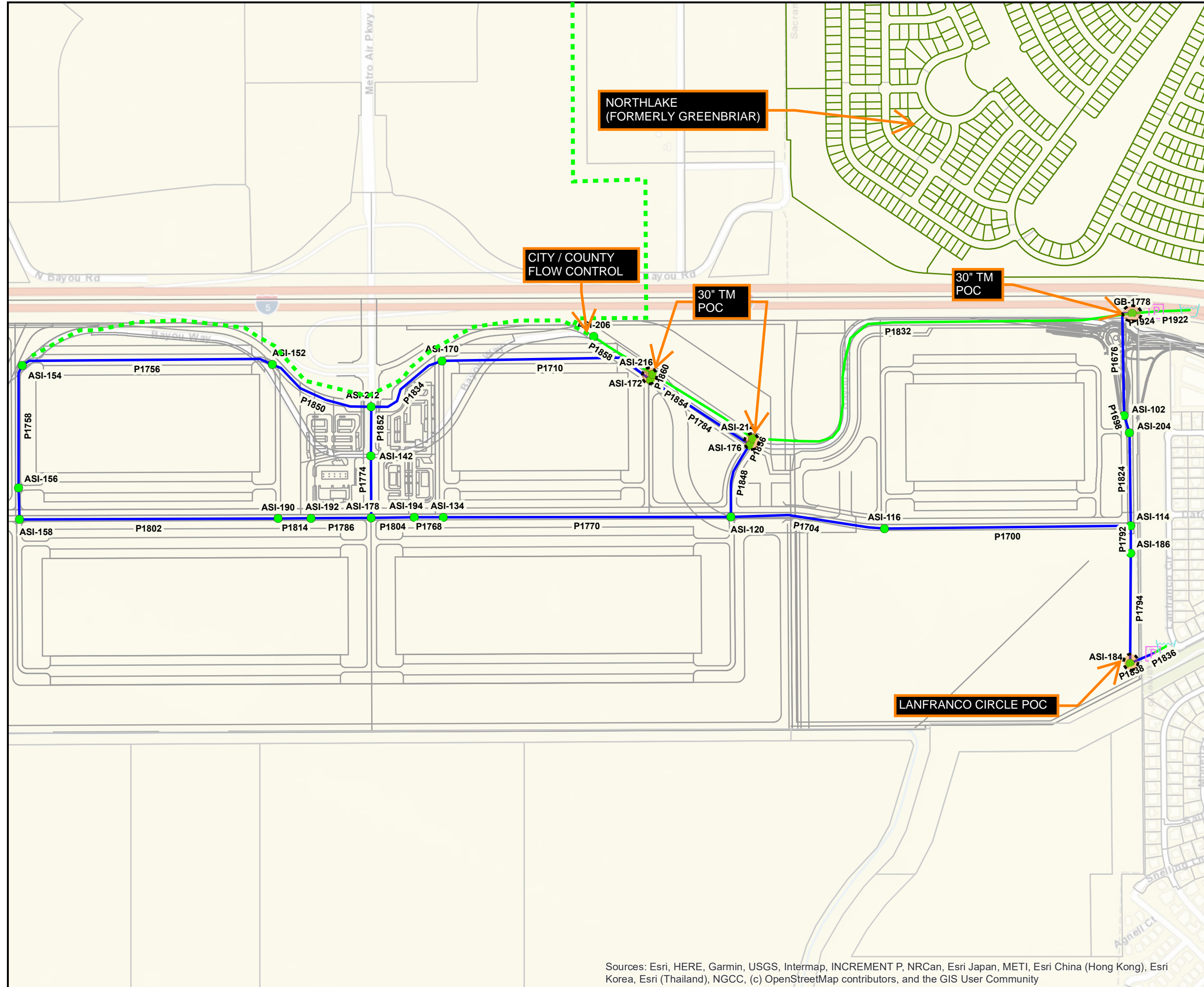




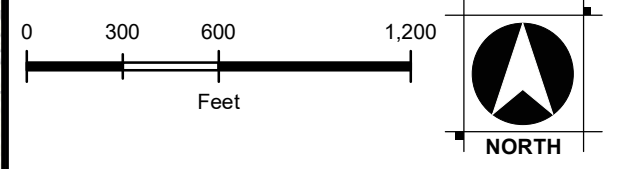


FIGURE G
AIRPORT SOUTH INDUSTRIAL
 SYSTEM LAYOUT
 SACRAMENTO, CALIFORNIA
 MAY 2023



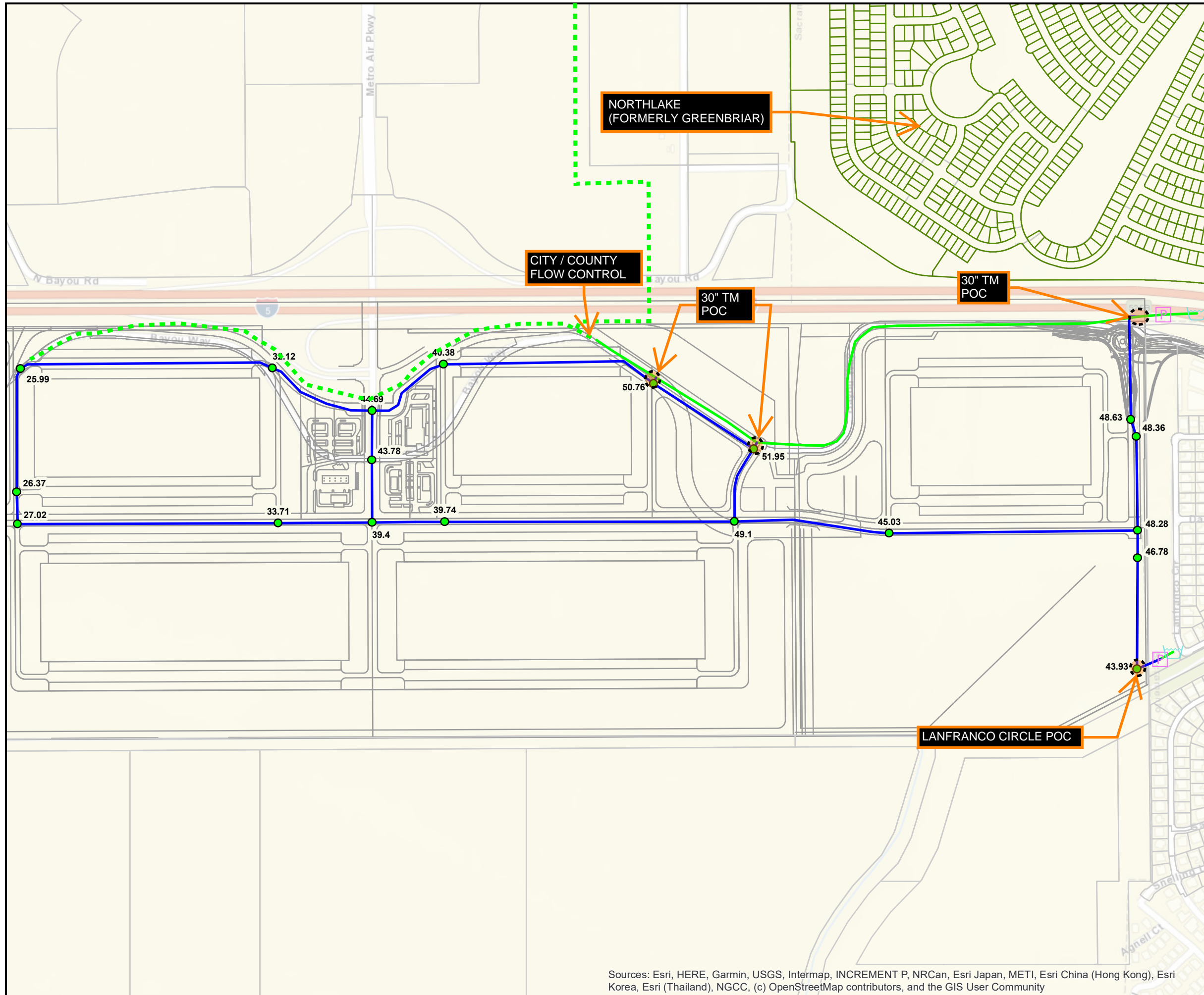
- LEGEND**
-  12-INCH PUBLIC MAIN
 -  PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing 30" TM ownership transfer to City)
 -  PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing County Zone 50 System)
 -  POINT OF CONNECTION (POC)



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

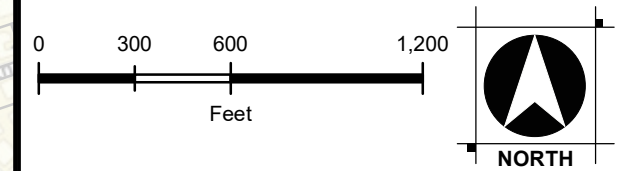


FIGURE H
AIRPORT SOUTH INDUSTRIAL
 SYSTEM RESIDUAL PRESSURE
 SACRAMENTO, CALIFORNIA
 MAY 2023



LEGEND

- 12-INCH PUBLIC MAIN
- PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing 30" TM ownership transfer to City)
- - - PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing County Zone 50 System)
- RESIDUAL PRESSURE < 20 PSI
- RESIDUAL PRESSURE > 20 PSI
- POINT OF CONNECTION (POC)








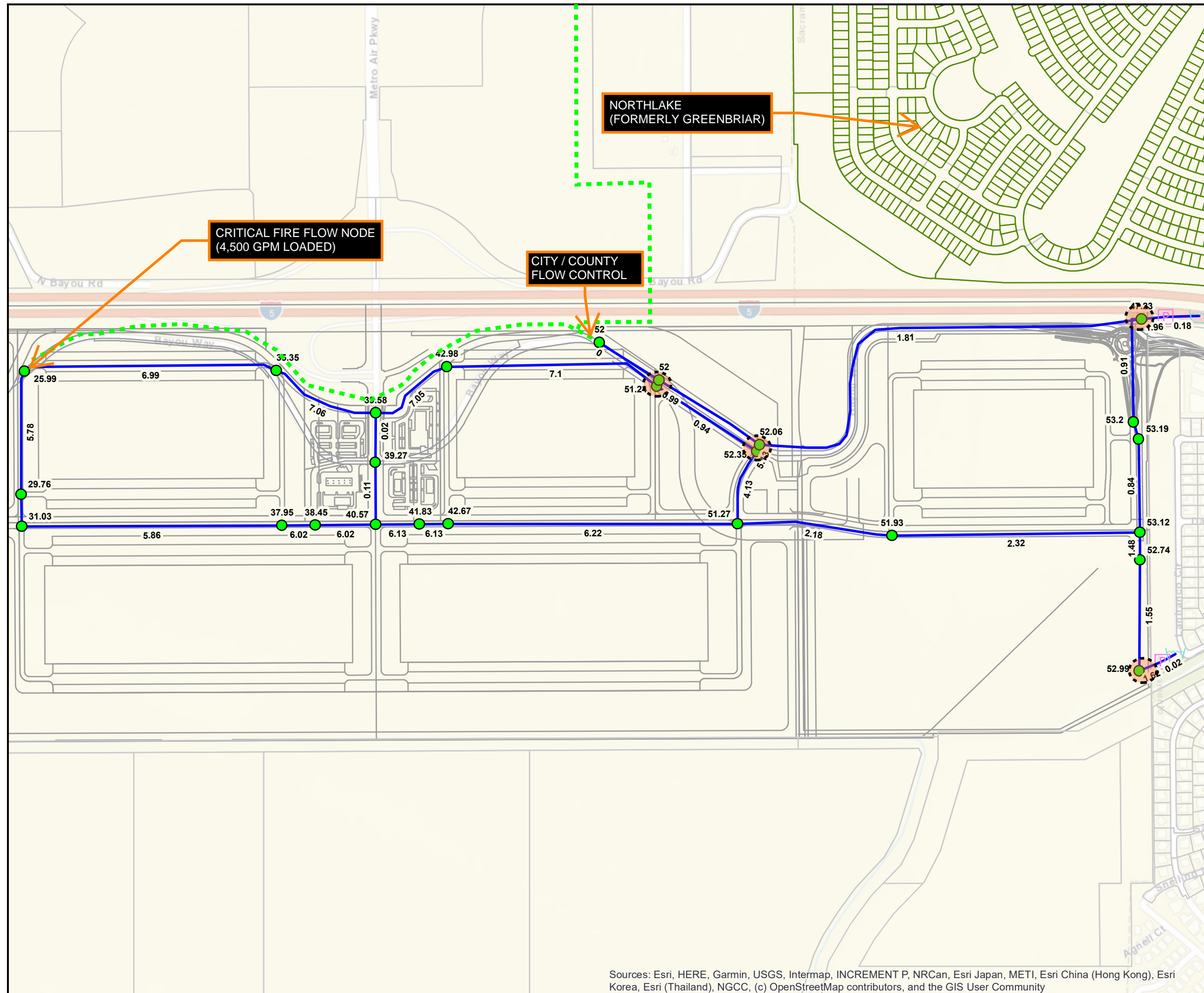
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

FIGURE I

AIRPORT SOUTH INDUSTRIAL
SYSTEM STATIC FIRE FLOW
SACRAMENTO, CALIFORNIA
MAY 2023

LEGEND

-  VELOCITY < 10 FT/KFT
-  VELOCITY > 10 FT/KFT
-  RESIDUAL PRESSURE < 20 PSI
-  RESIDUAL PRESSURE > 20 PSI
-  POINT OF CONNECTION (POC)



NORTHLAKE
(FORMERLY GREENBRIAR)

CRITICAL FIRE FLOW NODE
(4,500 GPM LOADED)

CITY / COUNTY
FLOW CONTROL

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

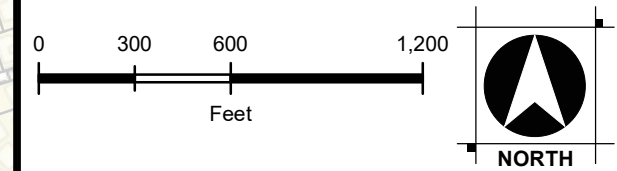
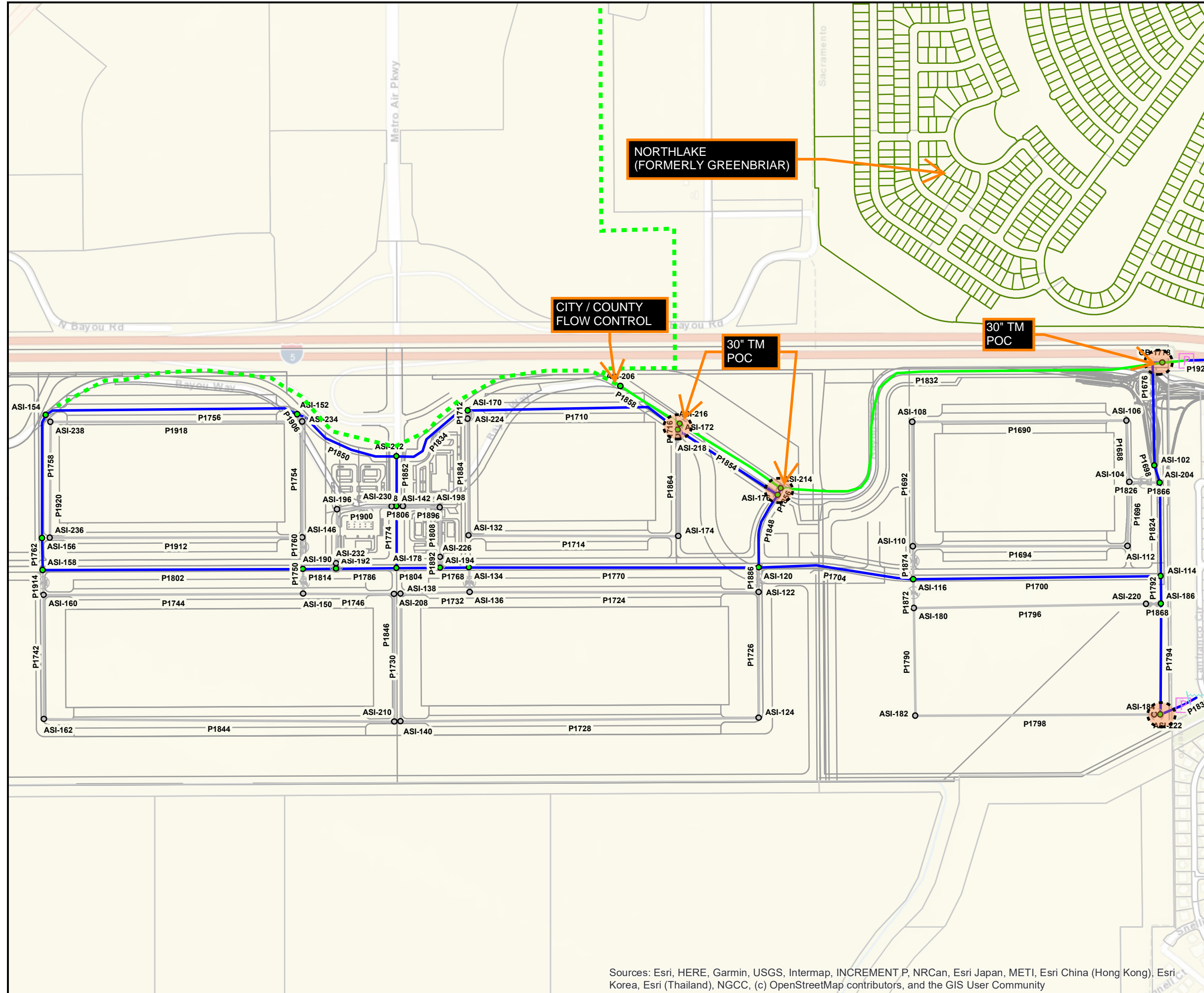
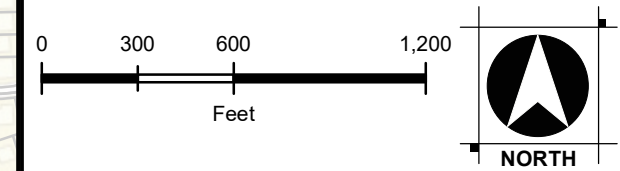


FIGURE J
AIRPORT SOUTH INDUSTRIAL
 PUBLIC AND PRIVATE SYSTEM LAYOUT
 SACRAMENTO, CALIFORNIA
 MAY 2023



LEGEND

- 12-INCH PUBLIC MAIN
- 12-INCH PRIVATE MAIN
- PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing 30" TM ownership transfer to City)
- - - PUBLIC WATER TRANSMISSION MAIN (TM)
(Existing County Zone 50 System)
- PRIVATE NODES
- PUBLIC NODES
- POINT OF CONNECTION (POC)



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



APPENDIX A

ASI WATER STUDY
PUBLIC AVERAGE DAY DEMAND MODEL OUTPUT

JUNCTION REPORT				
JUNCTION NODE ID	DEMAND (gpm)	ELEVATION (feet)	HEAD (feet)	PRESSURE (psi)
ASI-102	0.0	11	143.3	57.3
ASI-114	0.0	11	143.3	57.3
ASI-116	24.6	11	143.3	57.3
ASI-120	15.3	11	143.3	57.3
ASI-134	15.3	11	143.3	57.3
ASI-142	16.6	14	143.3	56.0
ASI-152	13.3	13	143.3	56.3
ASI-154	0.0	13	143.3	56.3
ASI-156	0.0	12	143.3	56.9
ASI-158	14.9	11	143.3	57.3
ASI-170	9.6	13	143.3	56.3
ASI-172	9.6	13	143.3	56.3
ASI-176	10.9	11	143.3	57.3
ASI-178	0.0	11	143.3	57.3
ASI-184	12.0	12	143.3	56.9
ASI-186	12.0	12	143.3	56.9
ASI-190	28.2	11	143.3	57.3
ASI-192	0.0	12	143.3	56.9
ASI-194	0.0	11	143.3	57.3
ASI-204	12.7	11	143.3	57.3
ASI-206	0.0	12	143.3	56.9
ASI-212	0.0	13	143.3	56.3
ASI-214	0.0	12	143.3	56.9
ASI-216	0.0	12	143.3	56.9
GB-1778	0.0	25	143.3	51.3

ASI WATER STUDY

PUBLIC AVERAGE DAY DEMAND MODEL OUTPUT

PIPE REPORT									
PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	DIAMETER (in)	ROUGHNESS (C-value)	FLOW (gpm)	VELOCITY (ft/s)	HEADLOSS (ft)	HL/1000 (ft/kft)
P1676	GB-1778	ASI-102	712	12	130	51.2	0.2	0.0	0.0
P1698	ASI-102	ASI-204	113	12	130	51.2	0.2	0.0	0.0
P1700	ASI-114	ASI-116	1566	12	130	14.6	0.0	0.0	0.0
P1704	ASI-116	ASI-120	983	12	130	-10.0	0.0	0.0	0.0
P1710	ASI-172	ASI-170	1375	12	130	56.2	0.2	0.0	0.0
P1756	ASI-152	ASI-154	1606	12	130	11.1	0.0	0.0	0.0
P1758	ASI-154	ASI-156	783	12	130	11.1	0.0	0.0	0.0
P1762	ASI-156	ASI-158	203	12	130	11.1	0.0	0.0	0.0
P1768	ASI-134	ASI-194	183	12	130	26.4	0.1	0.0	0.0
P1770	ASI-120	ASI-134	1829	12	130	41.7	0.1	0.0	0.0
P1774	ASI-178	ASI-142	393	12	130	-5.6	0.0	0.0	0.0
P1784	ASI-176	ASI-172	754	12	130	-2.0	0.0	0.0	0.0
P1786	ASI-178	ASI-192	383	12	130	32.0	0.1	0.0	0.0
P1792	ASI-114	ASI-186	174	12	130	23.9	0.1	0.0	0.0
P1794	ASI-186	ASI-184	700	12	130	12.0	0.0	0.0	0.0
P1802	ASI-190	ASI-158	1645	12	130	3.8	0.0	0.0	0.0
P1804	ASI-194	ASI-178	275	12	130	26.4	0.1	0.0	0.0
P1814	ASI-192	ASI-190	209	12	130	32.0	0.1	0.0	0.0
P1824	ASI-204	ASI-114	591	12	130	38.5	0.1	0.0	0.0
P1832	GB-1778	ASI-214	2988	30	100	143.7	0.1	0.0	0.0
P1834	ASI-170	ASI-212	576	12	130	46.6	0.1	0.0	0.0
P1836	RES111	U7006	1	99	150	0.0	0.0	0.0	0.0
P1838	U7006	ASI-184	158	12	130	0.0	0.0	0.0	0.0
P1848	ASI-176	ASI-120	490	12	130	67.0	0.2	0.0	0.0
P1850	ASI-212	ASI-152	710	12	130	24.4	0.1	0.0	0.0
P1852	ASI-212	ASI-142	313	12	130	22.2	0.1	0.0	0.0
P1854	ASI-214	ASI-216	757	30	100	67.8	0.0	0.0	0.0
P1856	ASI-214	ASI-176	46	12	130	75.9	0.2	0.0	0.0
P1858	ASI-216	ASI-206	445	30	100	0.0	0.0	0.0	0.0
P1860	ASI-216	ASI-172	41	12	130	67.8	0.2	0.0	0.0
P1922	RES113	U7008	1	99	150	194.9	0.0	0.0	0.0
P1924	U7008	GB-1778	152	30	100	194.9	0.1	0.0	0.0

Note:

Pipe not part of analysis, used for model functionality

GREENBRIAR WATER STUDY
PUBLIC PEAK HOUR DEMAND MODEL OUTPUT

JUNCTION REPORT				
JUNCTION NODE ID	DEMAND (gpm)	ELEVATION (feet)	HEAD (feet)	PRESSURE (psi)
ASI-102	0.0	11	142.9	57.2
ASI-114	0.0	11	142.9	57.2
ASI-116	64.0	11	142.9	57.2
ASI-120	39.7	11	142.9	57.2
ASI-134	39.7	11	142.8	57.1
ASI-142	43.2	14	142.8	55.8
ASI-152	34.6	13	142.8	56.1
ASI-154	0.0	13	142.8	56.1
ASI-156	0.0	12	142.8	56.7
ASI-158	38.7	11	142.8	57.1
ASI-170	25.0	13	142.9	56.1
ASI-172	25.0	13	143.0	56.2
ASI-176	28.4	11	143.0	57.2
ASI-178	0.0	11	142.8	57.1
ASI-184	31.1	12	142.9	56.7
ASI-186	31.1	12	142.9	56.7
ASI-190	73.3	11	142.8	57.1
ASI-192	0.0	12	142.8	56.7
ASI-194	0.0	11	142.8	57.1
ASI-204	32.9	11	142.9	57.2
ASI-206	0.0	12	143.0	56.7
ASI-212	0.0	13	142.8	56.1
ASI-214	0.0	12	143.0	56.7
ASI-216	0.0	12	143.0	56.7
GB-1778	0.0	25	143.0	51.1

GREENBRIAR WATER STUDY

PUBLIC PEAK HOUR DEMAND MODEL OUTPUT

PIPE REPORT									
PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	DIAMETER (in)	ROUGHNESS (C-value)	FLOW (gpm)	VELOCITY (ft/s)	HEADLOSS (ft)	HL/1000 (ft/kft)
P1676	GB-1778	ASI-102	712	12	130	133.1	0.4	0.0	0.1
P1698	ASI-102	ASI-204	113	12	130	133.1	0.4	0.0	0.1
P1700	ASI-114	ASI-116	1566	12	130	37.9	0.1	0.0	0.0
P1704	ASI-116	ASI-120	983	12	130	-26.1	0.1	0.0	0.0
P1710	ASI-172	ASI-170	1375	12	130	146.1	0.4	0.1	0.1
P1756	ASI-152	ASI-154	1606	12	130	28.9	0.1	0.0	0.0
P1758	ASI-154	ASI-156	783	12	130	28.9	0.1	0.0	0.0
P1762	ASI-156	ASI-158	203	12	130	28.9	0.1	0.0	0.0
P1768	ASI-134	ASI-194	183	12	130	68.7	0.2	0.0	0.0
P1770	ASI-120	ASI-134	1829	12	130	108.4	0.3	0.1	0.0
P1774	ASI-178	ASI-142	393	12	130	-14.5	0.0	0.0	0.0
P1784	ASI-176	ASI-172	754	12	130	-5.3	0.0	0.0	0.0
P1786	ASI-178	ASI-192	383	12	130	83.1	0.2	0.0	0.0
P1792	ASI-114	ASI-186	174	12	130	62.2	0.2	0.0	0.0
P1794	ASI-186	ASI-184	700	12	130	31.1	0.1	0.0	0.0
P1802	ASI-190	ASI-158	1645	12	130	9.8	0.0	0.0	0.0
P1804	ASI-194	ASI-178	275	12	130	68.7	0.2	0.0	0.0
P1814	ASI-192	ASI-190	209	12	130	83.1	0.2	0.0	0.0
P1824	ASI-204	ASI-114	591	12	130	100.1	0.3	0.0	0.0
P1832	GB-1778	ASI-214	2988	30	100	373.6	0.2	0.0	0.0
P1834	ASI-170	ASI-212	576	12	130	121.2	0.3	0.0	0.1
P1836	RES111	U7006	1	99	150	0.0	0.0	0.0	0.0
P1838	U7006	ASI-184	158	12	130	0.0	0.0	0.0	0.0
P1848	ASI-176	ASI-120	490	12	130	174.1	0.5	0.1	0.1
P1850	ASI-212	ASI-152	710	12	130	63.5	0.2	0.0	0.0
P1852	ASI-212	ASI-142	313	12	130	57.7	0.2	0.0	0.0
P1854	ASI-214	ASI-216	757	30	100	176.4	0.1	0.0	0.0
P1856	ASI-214	ASI-176	46	12	130	197.3	0.6	0.0	0.1
P1858	ASI-216	ASI-206	445	30	100	0.0	0.0	0.0	0.0
P1860	ASI-216	ASI-172	41	12	130	176.4	0.5	0.0	0.1
P1922	RES113	U7008	1	99	150	506.7	0.0	0.0	0.0
P1924	U7008	GB-1778	152	30	100	506.7	0.2	0.0	0.0

Note:

Pipe not part of analysis, used for model functionality

ASI WATER STUDY
MAXIMUM DAY DEMAND + FIRE FLOW MODEL OUTPUT

JUNCTION ID	STATIC DEMAND (gpm)	STATIC PRESSURE (psi)	STATIC HEAD (feet)	FIRE FLOW DEMAND (gpm)	RESIDUAL PRESSURE (psi)	AVAILABLE FLOW AT HYDRANT (gpm)	AVAILABLE FLOW PRESSURE (psi)
ASI-102	0.0	57.26	143.16	4,500	48.6	11024.7	20
ASI-114	0.0	57.26	143.14	4,500	48.3	10765.4	20
ASI-116	49.3	57.25	143.13	4,500	45.0	8823.5	20
ASI-120	30.5	57.25	143.14	4,500	49.1	11685.7	20
ASI-134	30.5	57.23	143.09	4,500	39.7	7076.2	20
ASI-142	33.2	55.93	143.08	3,500	43.8	6736.6	20
ASI-152	26.6	56.23	143.08	4,500	32.1	5740.2	20
ASI-154	0.0	56.23	143.08	4,500	26.0	4995.5	20
ASI-156	0.0	56.79	143.08	4,500	26.4	5022.6	20
ASI-158	29.8	57.23	143.07	4,500	27.0	5108.3	20
ASI-170	19.2	56.24	143.11	4,500	40.4	7402.5	20
ASI-172	19.2	56.27	143.17	4,500	50.8	15901.4	20
ASI-176	21.9	57.27	143.17	4,500	52.0	16752.7	20
ASI-178	0.0	57.23	143.08	4,500	39.4	6972.7	20
ASI-184	23.9	56.82	143.14	4,500	43.9	8393.6	20
ASI-186	23.9	56.82	143.14	4,500	46.8	9892.4	20
ASI-190	56.4	57.23	143.08	4,500	33.7	5952.6	20
ASI-204	25.3	57.26	143.15	4,500	48.4	10812.9	20
ASI-212	0.0	56.24	143.09	3,500	44.7	6956.0	20

Notes:

Critical Fire Flow Node.

ASI WATER STUDY

MAXIMUM DAY DEMAND + FIRE FLOW AT NODE ASI-154 MODEL OUTPUT

JUNCTION REPORT				
JUNCTION	DEMAND	ELEVATION	HEAD	PRESSURE
ASI-102	0.0	11.0	133.8	53.2
ASI-114	0.0	11.0	133.6	53.1
ASI-116	49.3	11.0	130.9	51.9
ASI-120	30.5	11.0	129.3	51.3
ASI-134	30.5	11.0	109.5	42.7
ASI-142	33.2	14.0	104.6	39.3
ASI-152	26.6	13.3	94.9	35.4
ASI-154	4500.0	13.3	73.3	26.0
ASI-156	0.0	12.0	80.7	29.8
ASI-158	29.8	11.0	82.6	31.0
ASI-170	19.2	13.3	112.5	43.0
ASI-172	19.2	13.3	131.6	51.2
ASI-176	21.9	11.0	131.8	52.4
ASI-178	0.0	11.0	104.6	40.6
ASI-184	23.9	12.0	134.3	53.0
ASI-186	23.9	12.0	133.7	52.7
ASI-190	56.4	11.0	98.6	38.0
ASI-192	0.0	12.0	100.7	38.5
ASI-194	0.0	11.0	107.6	41.8
ASI-204	25.3	11.0	133.8	53.2
ASI-206	0.0	12.0	132.0	52.0
ASI-212	0.0	13.3	104.6	39.6
ASI-214	0.0	12.0	132.2	52.1
ASI-216	0.0	12.0	132.0	52.0
GB-1778	0.0	25.0	134.0	47.2

Note:

Critical Fire Flow Node

ASI WATER STUDY
MAXIMUM DAY DEMAND + FIRE FLOW AT NODE ASI-154 MODEL OUTPUT

PIPE REPORT									
PIPE	FROM	TO	LENGTH	DIAMETER	ROUGHNESS	FLOW	VELOCITY	HEADLOSS	HL/1000
P1676	GB-1778	ASI-102	712	12	130	320.8	0.9	0.2	0.3
P1698	ASI-102	ASI-204	113	12	130	320.8	0.9	0.0	0.3
P1700	ASI-114	ASI-116	1566	12	130	818.1	2.3	2.7	1.8
P1704	ASI-116	ASI-120	983	12	130	768.8	2.2	1.5	1.6
P1710	ASI-172	ASI-170	1375	12	130	2502.9	7.1	19.1	13.9
P1756	ASI-152	ASI-154	1606	12	130	2463.5	7.0	21.6	13.5
P1758	ASI-154	ASI-156	783	12	130	-2036.5	5.8	7.4	9.5
P1762	ASI-156	ASI-158	203	12	130	-2036.5	5.8	1.9	9.5
P1768	ASI-134	ASI-194	183	12	130	2162.3	6.1	1.9	10.6
P1770	ASI-120	ASI-134	1829	12	130	2192.8	6.2	19.9	10.9
P1774	ASI-178	ASI-142	393	12	130	39.7	0.1	0.0	0.0
P1784	ASI-176	ASI-172	754	12	130	332.3	0.9	0.3	0.3
P1786	ASI-178	ASI-192	383	12	130	2122.7	6.0	3.9	10.2
P1792	ASI-114	ASI-186	174	12	130	-522.6	1.5	0.1	0.8
P1794	ASI-186	ASI-184	700	12	130	-546.5	1.6	0.6	0.8
P1802	ASI-190	ASI-158	1645	12	130	2066.3	5.9	16.0	9.7
P1804	ASI-194	ASI-178	275	12	130	2162.3	6.1	2.9	10.6
P1814	ASI-192	ASI-190	209	12	130	2122.7	6.0	2.1	10.2
P1824	ASI-204	ASI-114	591	12	130	295.5	0.8	0.2	0.3
P1832	GB-1778	ASI-214	2988	30	100	3998.5	1.8	1.9	0.6
P1834	ASI-170	ASI-212	576	12	130	2483.7	7.1	7.9	13.7
P1836	RES111	U7006	1	99	150	570.5	0.0	0.0	0.0
P1838	U7006	ASI-184	158	12	130	570.5	1.6	0.1	0.9
P1848	ASI-176	ASI-120	490	12	130	1454.5	4.1	2.5	5.1
P1850	ASI-212	ASI-152	710	12	130	2490.2	7.1	9.7	13.7
P1852	ASI-212	ASI-142	313	12	130	-6.4	0.0	0.0	0.0
P1854	ASI-214	ASI-216	757	30	100	2189.9	1.0	0.2	0.2
P1856	ASI-214	ASI-176	46	12	130	1808.6	5.1	0.4	7.6
P1858	ASI-216	ASI-206	445	30	100	0.0	0.0	0.0	0.0
P1860	ASI-216	ASI-172	41	12	130	2189.9	6.2	0.4	10.8
P1922	RES113	U7008	1	99	150	4319.3	0.2	0.0	0.0
P1924	U7008	GB-1778	152	30	100	4319.3	2.0	0.1	0.7

Note:

Pipe not part of analysis, used for model functionality

APPENDIX B

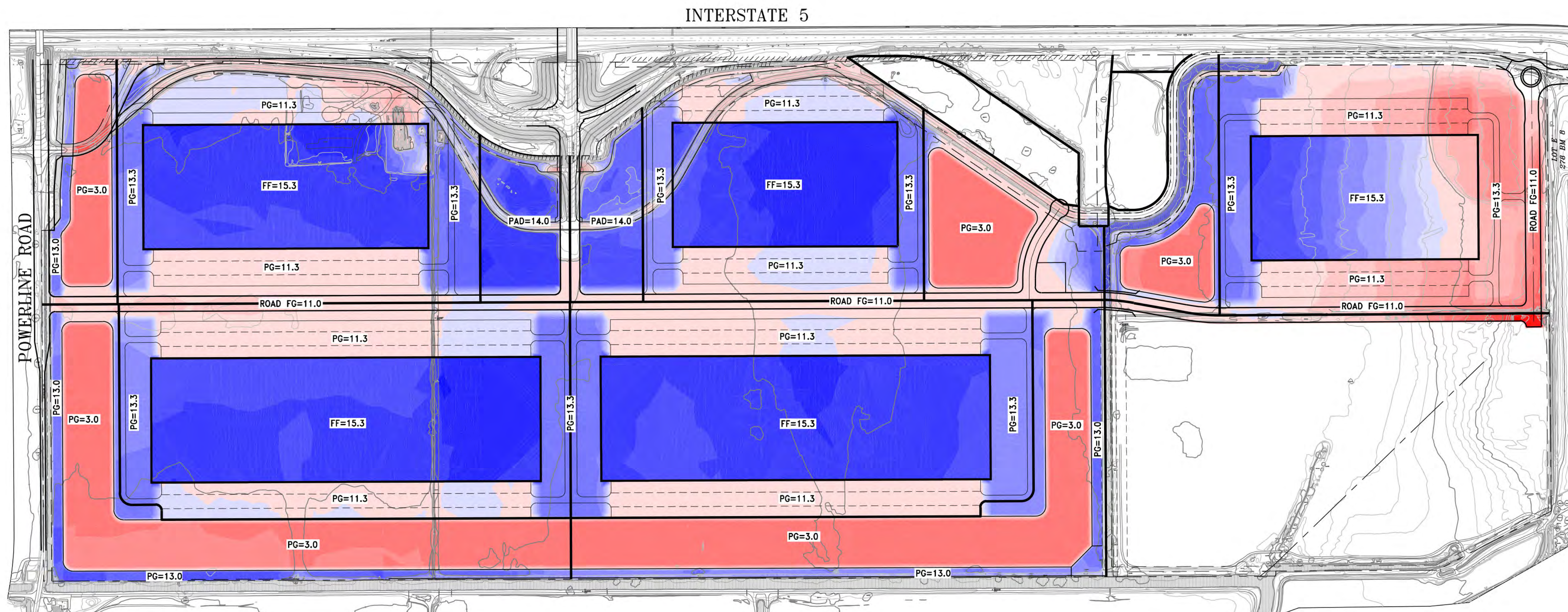
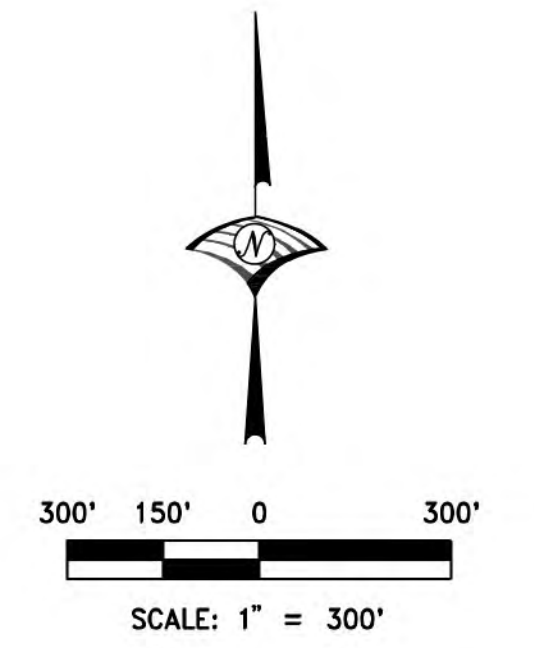
PRELIMINARY EARTHWORK EXHIBIT

AIRPORT SOUTH INDUSTRIAL

NORTHPOINT DEVELOPMENT

SACRAMENTO COUNTY CALIFORNIA

MAY 11, 2022



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-16.000	-14.667	Red
2	-14.667	-13.333	Red
3	-13.333	-12.000	Red
4	-12.000	-10.667	Red
5	-10.667	-9.333	Red
6	-9.333	-8.000	Red
7	-8.000	-6.667	Red
8	-6.667	-5.333	Red
9	-5.333	-4.000	Red
10	-4.000	-2.667	Red
11	-2.667	-1.333	Red
12	-1.333	0.000	Red
13	0.000	0.500	Light Blue
14	0.500	1.000	Light Blue
15	1.000	1.500	Light Blue
16	1.500	2.000	Light Blue
17	2.000	2.500	Light Blue
18	2.500	3.000	Light Blue
19	3.000	3.500	Light Blue
20	3.500	4.000	Light Blue
21	4.000	4.500	Light Blue
22	4.500	5.000	Light Blue
23	5.000	5.500	Light Blue
24	5.500	6.000	Light Blue

NP MAP LAND
HOLDING CO LLC
225-0020-014
225-0020-015

NATOMAS BASIN CONSERVANCY
2250020-012
225-0020-013

EARTHWORK (UNADJUSTED)			
	CUT (CY)	FILL (CY)	OVERALL (CY)
WEST	615,180	864,848	249,663 (IMPORT)
EAST	184,968	95,275	89,693 (EXPORT)
OVERALL	800,148	960,118	159,970 (IMPORT)

EARTHWORK (ADJUSTED) (15% ADDED TO FILL)			
	CUT (CY)	FILL (CY)	OVERALL (CY)
WEST	615,180	994,569	379,389 (IMPORT)
EAST	184,968	109,567	75,402 (EXPORT)
OVERALL	800,148	1,104,136	303,988 (IMPORT)

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J:\3000-s\3909_Airport_South_and_Airport_South_Ind_CA\Civil\Studies\Grading\Exhibits\CE-Exhibit-EARTHWORK-ASI.dwg 5/12/2022 8:11 AM Philip Roberts

APPENDIX C

CITY OF SACRAMENTO

WATER STUDY DESIGN MANUAL

This manual is intended to provide developers information needed to complete a water study for a new development project, including the form(s) necessary for a complete submittal.

January 2018

Every project, regardless of size, must fill out and submit the “SB 610/SB 221 Water Supply Assessment and Certification Form” (see Attachment 1). This form will confirm or deny the availability of water supply, per the latest Urban Water Management Plan, before the project can proceed.

Once water supply has been validated for the project, then a water study shall be completed for the project design. This study must be stamped by a licensed engineer and submitted to the Department of Utilities for review. The submittal shall include an electronic copy of every submittal, and if requested, electronic copies of the model/calculation tool.

The study must be based on a water system design that meets the City design standards for a public water system, including but not limited, to properly sizing pipe to meet both water quality and fire flow needs for the project, looping systems for redundancy and improved water supply, and hydrant placement as it relates to the surrounding area as well as the project.

Water studies shall follow the “Water Distribution System Criteria” (see Attachment 2) and incorporate the following information:

1) Study Purpose and Objectives

- a) Include description of the development including any proposed phasing of the improvements
 - i) Geographic location of the project and the surrounding area, including elevations
 - ii) Land use type of the project and the surrounding area (identify if different from the current General Plan)
 - iii) Number of services being proposed
 - iv) Existing water infrastructure as well as proposed new infrastructure, including pipe size, age, and material
 - v) Descriptions of any non-standard proposed designs and reasons for not meeting standards

2) Study Area

- a) Location Map
- b) Modeled Water Distribution Layout Map – Include pipe size, demand junctions (include elevations based on project area survey results), tie-in locations, and any necessary system modifications

3) Demands and Peaking Factors

- a) Land Use Designation (Units, Acres, and Demand Factor – include source)
- b) Flows to be assessed (concurrently)
 - i) Domestic
 - ii) Irrigation
 - iii) Hydrant Flow
 - iv) Fire Sprinkler Loads (*Fire sprinkler loads may be waived if authorization is provided by the current City of Sacramento Fire Marshall and the report includes details of the correspondence)
- c) Demand Factor (by Land Use Designation if more than one)
 - i) Average Day Demand (ADD)

- ii) Maximum Day Demand (MDD) - 2.0 x Average Day
 - iii) Peak Hour Demand (PHD) - 2.6 x Average Day
 - iv) Assumed System Losses
- 4) **Design Criteria**
- a) City of Sacramento Design Criteria – Include Source
 - i) Minimum velocity during Average Day Demand
 - ii) Minimum residual pressure during Peak Hour Demand
 - iii) Maximum velocity during Peak Hour Demand
 - iv) Minimum residual pressure during Maximum Day Demand plus fire flow
 - v) Maximum velocity during Maximum Day Demand plus fire flow
 - vi) Maximum headloss per 1,000-LF
 - vii) Minimum velocity during Average Day Demand
 - viii) Hazen Williams “C”
 - ix) Elevations at demand nodes (should reflect surveyed elevations for project)
 - b) Fire Flow Requirements – As Required by the Fire Department (shall be no less than 1,000-gpm with 20-psi residual)
 - i) Flow (gpm)
 - ii) Residual Pressure (psi)
 - iii) Duration (Hours)
- 5) **Hydraulic Analysis Summary**
- a) Model Description - Include software information (if applicable) and source of data
 - b) Existing Boundary Conditions, including results from field hydrant testing
 - c) Model Scenarios and Results
 - i) Include Minimum/Maximum Pressure and Maximum Velocity for Average Day Demand, Maximum Day Demand, Maximum Day Demand plus Fire Flow, and Peak Hour Demand for each scenario (include back-up by junction and pipe segment)
 - ii) Phased projects shall include intermediate and cumulative results
- 6) **Conclusions**

At the discretion of the City Engineer, additional information may be required for the water study. Each project is different and may require additional information dependent on the location, size of development and land use being proposed for the project.

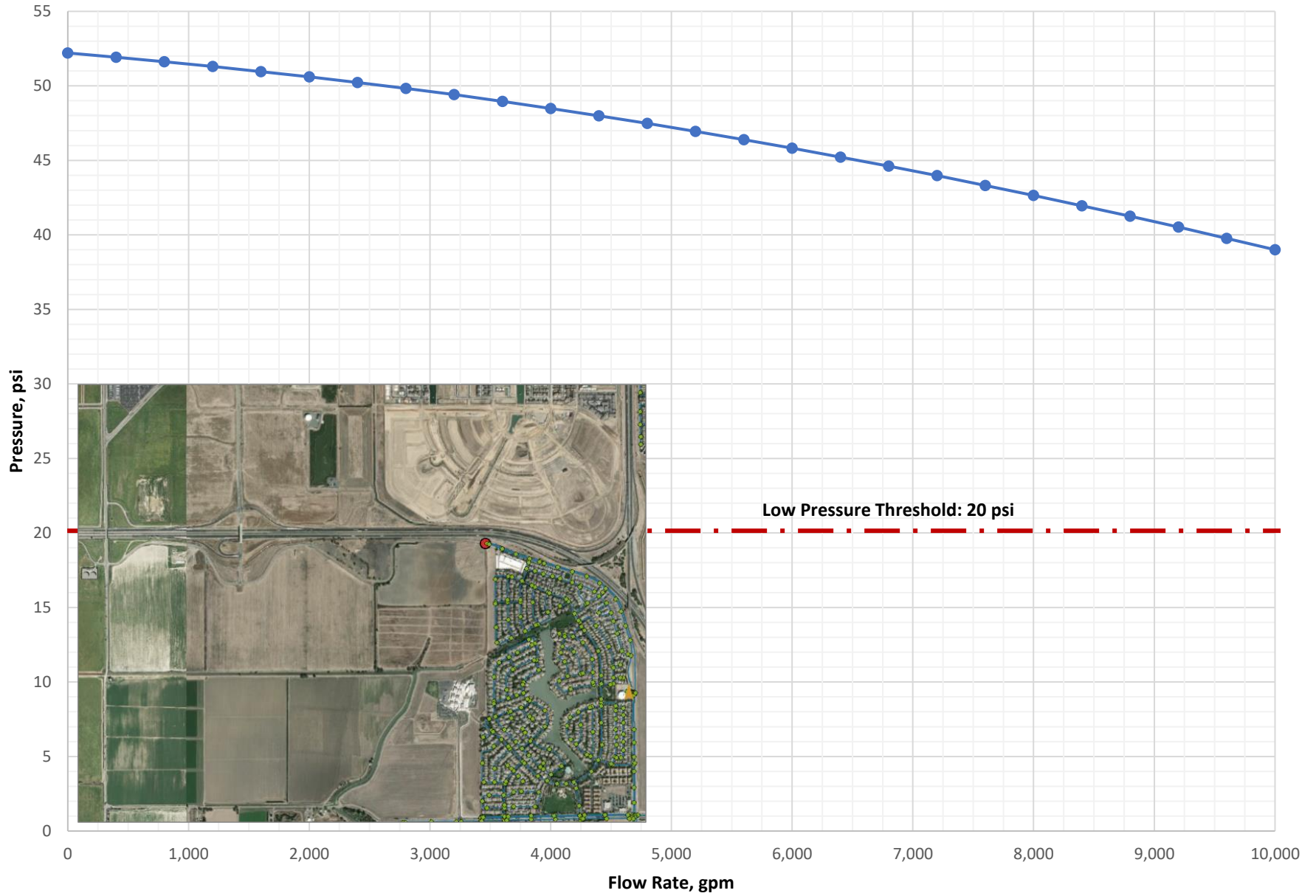
City of Sacramento
Water Distribution System Criteria

Summary of Recommended Potable Water System Performance and Operational Criteria

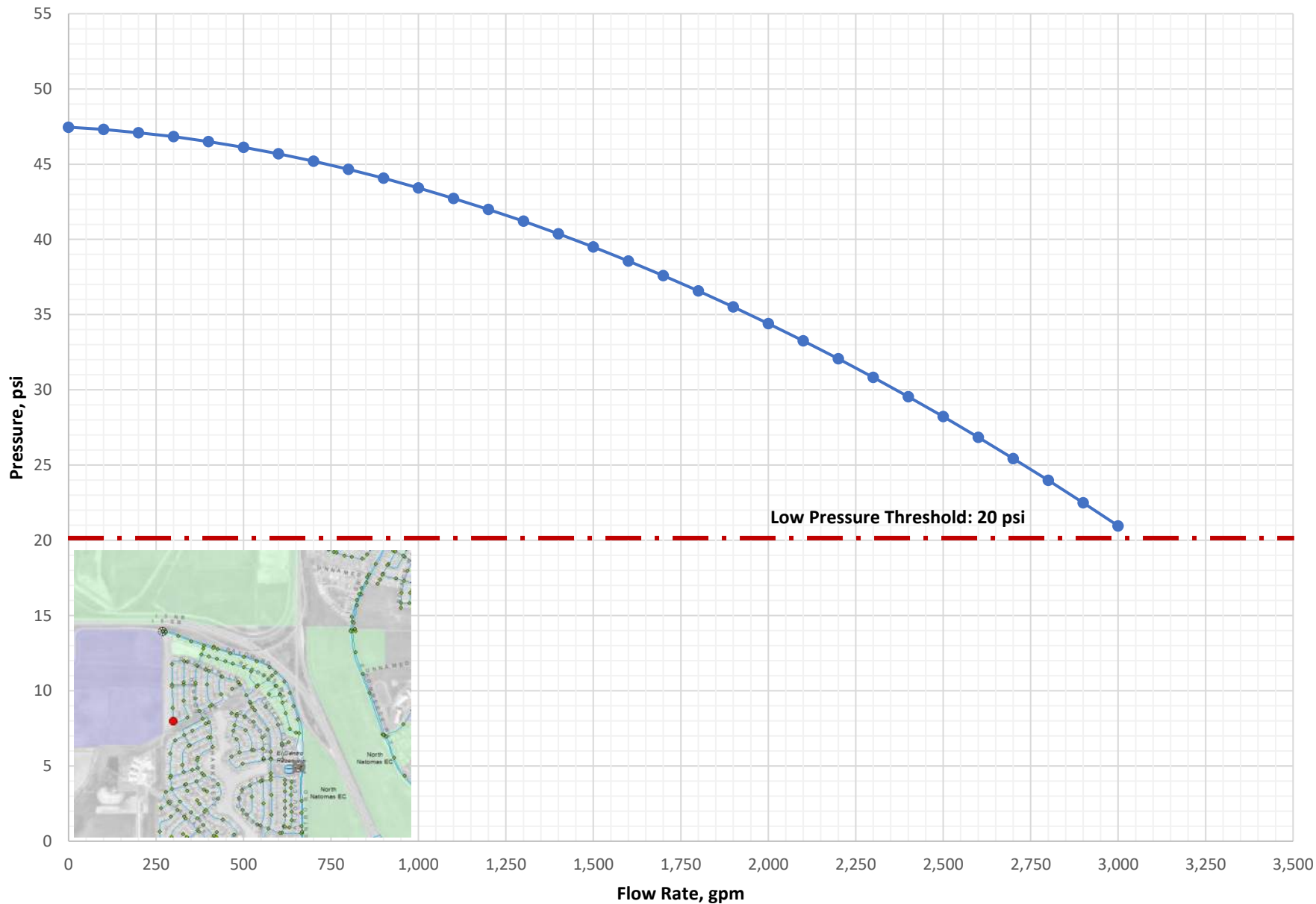
Component	Criteria	Comments	
Fire Flow Requirements (flow [gpm] @ duration [hours])			
Single Family Residential	1,500 gpm @ 2 hrs	Existing Development will be evaluated on a case-by-case basis because of the historical varying standard	
Multi Family Residential	2,500 gpm @ 2 hrs		
Commercial	3,500 gpm @ 4 hrs (w/ approved automatic sprinkler system)		
Industrial	4,500 gpm @ 4 hrs (w/ approved automatic sprinkler system)		
Institutional	4,500 gpm @ 4 hrs (w/ approved automatic sprinkler system)		
Water Transmission Line Sizing			
Diameter	>= 18-inches	Locate new transmission pipelines within designated utility corridors wherever possible.	
<i>Average Day Demand Condition</i>			
Minimum Pressure [psi]	30 psi	Criteria based on requirements for new development, existing transmission mains will be evaluated on case-by-case basis. Evaluation will include age, material type, velocity, head loss, and pressure.	
Maximum Pressure [psi]	80 psi		
Maximum Head loss [ft/kft]	3 ft/kft		
Maximum Velocity [ft/sec]	3 ft/sec		
Minimum Velocity [ft/sec]	0.10 ft/sec		
<i>Maximum Day Demand Condition</i>			
Maximum Pressure [psi]	30 psi		
Maximum Head loss [ft/kft]	3 ft/kft		
Maximum Velocity [ft/sec]	5 ft/sec		
<i>Peak Hour Demand Condition</i>			
Minimum Pressure [psi]	30 psi	For consistency in hydraulic modeling.	
Maximum Head loss [ft/kft]	3 ft/kft		
Maximum Velocity [ft/sec]	5 ft/sec		
Hazen Williams "C" Factor	130		
Pipeline Material	CCP (Concrete Cylinder Pipe), Ductile Iron, or Welded Steel		
Water Distribution Line Sizing			
Diameter	< 18-inches	Must verify pipeline size with maximum day plus fire flow analysis. Locate new distribution pipelines within designated utility corridors wherever possible	
<i>Average Day Demand Condition</i>			
Minimum Pressure [psi]	30 psi	Criteria based on requirements for new development, existing distribution mains will be evaluated on case-by-case basis. Evaluation will include age, material type, velocity, head loss, and pressure.	
Maximum Pressure [psi]	80 psi		
Maximum Head loss [ft/kft]	7 ft/kft		
Maximum Velocity [ft/sec]	5 ft/sec		
Minimum Velocity [ft/sec]	0.10 ft/sec		
<i>Maximum Day with Fire Flow Demand Condition</i>			
Minimum Pressure [psi] (at fire node)	20 psi		
Maximum Head loss [ft/kft]	10 ft/kft		
Maximum Velocity [ft/sec]	10 ft/sec		
<i>Peak Hour Demand Condition</i>			
Minimum Pressure [psi]	30 psi	6-inch may apply where minimum velocities aren't met	
Maximum Head loss [ft/kft]	7 ft/kft		
Maximum Velocity [ft/sec]	7 ft/sec		
<i>Minimum Pipeline Diameter</i>			
General	8-inches		
Industrial	12-inches		
Distribution to cul-de-sac / dead-end street	6-inches	4-inch may apply where minimum velocities aren't met and the dead end is no longer than 250-feet. 6-inch dead end runs shall be no longer than 500-feet.	
Distribution to fire hydrants	8-inches		
Hazen Williams "C" Factor	130	For consistency in hydraulic modeling.	
Pipeline Material	Ductile Iron or C900 PVC		
Maximum Water Service Pressure [psi]	80 psi	Install PRV if service pressure is greater than 80 psi.	
Gross Unit Water Use Factors for Retail Distribution System	Composite Residential Use Factor ^(a) [afy/dwelling unit]	Composite Non-Residential Water Use Factor ^(b) [afy/employee]	(a) Use factor includes 10% for unaccounted-for water. Public and Park uses show small increases in residential dwelling units because the spatial analysis captures small residential areas adjacent to these land uses. Average of residential category used to estimate this small residential use. Significant irrigation requirements for parks are assumed to be provided from wells not connected to the potable water system. Other use factors, such as residential categories, include neighborhood park water use, incorporate park irrigation use in the non-residential category. (b) Use factor includes 10% for unaccounted for water. Residential Low, Medium and High have small non-residential water use sample size. Therefore, Mixed Use Non-Residential used for Residential Low and Medium. Mixed Use - Higher Density used for Residential High.
Residential Low	0.61	0.09	
Residential Medium	0.39	0.09	
Residential High	0.12	0.04	
Mixed Use	0.19	0.09	
Mixed Use (Higher Density)	0.15	0.04	
Central Business Density	0.15	0.02	
Commercial/Office	0.15	0.09	
Industrial	--	0.14	
Public	0.37	0.17	
Park	0.37	0.17	
Gross Unit Water Use Factors for Study Areas			Use factor includes 10% for unaccounted-for water and 15% to account for rights-of-way and streets (net water use x 1.1/1.5 = gross water use).
Gross Water Use Factor [afa/acre]			
Residential Low	3.6		
Residential Medium	3.8		
Mixed Use	2.0		
Commercial/Office	1.5		
Industrial	0.9		
Park	3.0		

APPENDIX D

Pressure Rating Curve along 30-inch Diameter Pipeline at the End of Bayou Road



Pressure Rating Curve along 8-inch Diameter Pipeline Adjacent to 261 Lanfranco Circle



APPENDIX M



10060 Goethe Road
Sacramento, CA 95827-3553
Tel 916.876.6000
Fax 916.876.6160
www.sacsewer.com

November 14, 2022

Jim Fletter
Wood Rodgers
3301 C Street, Building 100-B
Sacramento, California 95816

Subject: Airport South Industrial – Level 1 Sewer Study – SacSewer Approval

Mr. Fletter,

The Sacramento Area Sewer District (SacSewer) has reviewed the Airport South Industrial – Level 1 Sewer Study and has determined it sufficiently addresses SacSewer requirements and considers the study fully approved. Any significant change in the proposed or assumed land use presented in the document that impacts the sewer design may require a revision to this study.

If you have any questions regarding these comments please call me at 916-876-6336.

Sincerely,

Yadira Lewis

Yadira Lewis
SacSewer Development Services

www.sacsewer.com

Board of Directors

Representing:

County of Sacramento | City of Citrus Heights
City of Elk Grove | City of Folsom
City of Rancho Cordova | City of Sacramento

Christoph Dobson

District Engineer

Rosemary Clark

Director of Operations

Mike Huot

Director of Policy & Planning

Matthew Doyle

Director of Internal Services

Masiku Tapa Banda

Director of Finance

Nicole Coleman

Director of Communications

Airport South Industrial Level 1 Sewer Study

November 2022

Prepared for



Prepared by



WOOD RODGERS
DEVELOPING INNOVATIVE DESIGN SOLUTIONS
3301 C Street, Bldg. 100-B Tel: 916.341.7760
Sacramento, CA 95816 Fax: 916.341.7767



TABLE OF CONTENTS

1.0	Executive Summary	1
2.0	Introduction.....	3
3.0	Design & Sewer Flow Information.....	5
3.1	Design Assumptions.....	5
3.2	Sewer Flow Information.....	6
4.0	Sewer Alignments and Facilities.....	7
4.1	Pump Station.....	7
4.2	Force Main.....	7
4.3	Trunk and Collector Pipeline Materials	8
4.4	Preliminary Estimate	8
5.0	Conclusion.....	8

TABLES

Table 1-1: Project cost estimate for reimbursable backbone infrastructure.	2
Table 2-1: Land use, acreage and sewer ESDs based on sewer shed area identified in Exhibit E.....	4
Table 3-1: Design Flow Criteria	6

EXHIBITS

Exhibit A:	Vicinity Map
Exhibit B:	Surrounding Topography
Exhibit C:	Preliminary Site Plan
Exhibit D:	Land Use Summary
Exhibit E:	Schematic Sewer System Layout
Exhibit F:	Sewer Demand Calculations
Exhibit G:	Force Main Routing Alternatives
Exhibit H:	Design & Construction Cost Estimate

1.0 Executive Summary

Purpose

The purpose of this study is to provide environmental and financial background data for sewer infrastructure to support the Airport South Industrial (ASI) development. This development comprises commercial and industrial space along the Interstate 5 (I-5) corridor near the Sacramento Metropolitan Airport.

This study demonstrates that the development will provide onsite sewer infrastructure, including a sewer pump station that will convey sewer through one of three alternative force main alignments. The force mains will discharge to an existing sewer trunk or interceptor. The proposed onsite collectors, trunks, pump station and force main can serve the development. This infrastructure is not intended to serve any offsite areas, upstream or downstream.

This study describes the site topography, phasing and timing of the development, major components of the sewer infrastructure and how they intertie with existing and master planned Sacramento Area Sewer District (SacSewer) and Sacramento County Regional Sanitation District (Regional San) infrastructure. This Level 1 Sewer Study provides sufficient information for the preparation of environmental documentation and for financial planning.

Project and Study Characteristics

The ASI Project (Project) area totals approximately 474.4 acres and is located along Bayou Road south of I-5. The Project is currently within the County of Sacramento. The property lies south of I-5 and south and east of the Sacramento International Airport (SMF) and Metro Air Park (MAP). The Northlake (formerly Greenbriar) project lies north of I-5 and is northeast of the Project. The site is more fully described on the vicinity maps in **Exhibit A**. The North Natomas Community Plan in the City of Sacramento (City), comprising approximately 7,440 acres. Agricultural and habitat mitigation lands lie south of the Project. Undeveloped Airport Master Plan Commercial Development lands owned by SMF in the County of Sacramento are west and southwest of the Project area. The east boundary of the Project area is the City/County boundary. This includes a 200-foot-wide City-owned buffer along the eastern boundary of the Project that is located in the City. Phase 1 of the new MAP Interchange has been completed on I-5, which is directly north and comprises a portion of the Project area.

The Project is proposed for annexation into the City. The City is acting as the lead Agency. The annexation will be processed through the Local Agency Formation Commission (LAFCo). The sewer facilities are proposed to be included into SacSewer's and Regional San's expanded service area. The Project area has multiple landowners. NP MAP Land Holding Company, LLC (NorthPoint Development) and AKT Investments are the Applicants and are sponsoring the entitlements for the Project. **Exhibit D** is a Site Plan for the Project.

The Project consists of commercial and industrial land uses with supporting facilities such as detention basins, pump stations, roadways, buffer spaces and other public/quasi-public land uses. Commercial land uses total 13.4 acres, industrial totals 318.6 acres, public facilities and roadways total 142.4 acres. While total annexation acreage is 474.4, total developable acreage (Less I-5 lands) is 436.5. A preliminary Land Use Summary is included as **Exhibit C**.

The sewer equivalent single family dwelling units (ESD) that make up the sewer demand in this study includes approximately 81 ESDs of commercial units, 1,870 industrial (warehouse) ESDs, 516 detention basin ESDs, 152 ESDs of roadway/right-of-way, pump stations and buffer spaces.

All sewer facilities will be permanent. The sewer pump station that will serve the Project will be developed in a single phase to meet the ultimate average day dry weather (ADWF) and peak wet weather flows (PWWF). Based on the above land use area and ESDs, the cumulative ADWF and PWWF demand is expected to be 0.81 mgd and 2.09 mgd, respectively. The pump station will be size

for the PWWF and discharge to either a SacSewer trunk or a Regional San Interceptor. The route of the force main that will convey this demand will be through one of three alternatives shown in **Exhibit G**.

Finances

The cost to provide the backbone sewer facilities outlined in this study include onsite gravity trunks and manholes, a pump station, and a force main connecting to an existing trunk or interceptor system. The infrastructure items identified for cost estimating purpose, are those that will be reimbursed through SacSewer’s Trunk Sewer financing program. While detailed preliminary design of these facilities was not completed for this study, construction costs can be estimated based on similar facilities completed in the past.

The total estimated cost for these facilities is \$12,990,000. An Itemized list of those items used to arrive at this total is provided in **Exhibit H**. The total includes estimates for planning, studies, engineering, plus construction management, testing and inspection. It also includes a 20% contingency added to the construction estimate.

A summary of the itemized costs is provided in Table 1-1, below.

Table 1-1: Project cost estimate for reimbursable backbone infrastructure.

Facility Description	Cost
Pump Station	\$ 3,140,000
Gravity Trunk	\$ 330,000
Force Main	\$ 5,950,000
Construction Cost Estimate	\$9,420,000
Construction Contingency (20%)	\$ 1,880,000
Planning, Studies & Engineering (10%)	\$ 940,000
Construction Mgmt, Testing & Inspection (8%)	\$ 750,000
Total Project Cost	\$ 12,990,000

Findings

This study identifies onsite facilities and force main alternatives required to serve all phases of the Project. The peak wet weather demand from all of these phase areas is 2.09 mgd. The proposed collector, trunk, pump station and force main infrastructure will be size for the ultimate/buildout conditions and no phasing is proposed.

Once the Project area is annexed into the City of Sacramento, the Board for SacSewer and Regional San is expected to adopt the Project area into its service area.

The estimated cost for the backbone sewer infrastructure is approximately \$13 million.

2.0 Introduction

Level of Study

This study is identified as **Level 1** to show the degree of compliance with master planning by SacSewer and Regional San. The study further provides information to support environmental documentation and financial analysis of the Project. The focus of this study is on topography/project setting, phasing and timing, sewer sheds and sewer demand on existing SacSewer and Regional San backbone or trunk infrastructure required to serve the plan area. This level of study is not sufficient for design, and it is anticipated that a level two and three studies will be required prior to improvement plan approval for backbone facilities.

Location

This Project is in the County of Sacramento. The property lies south of I-5, and south and east of the Sacramento International Airport (SMF) and Metro Air Park (MAP). The Northlake Subdivision lies north of I-5 and is northeast of the Project. The location of the Subdivision is further shown in **Exhibit A**.

Topography

The existing topography/setting within the Project area and surrounding it, is a combination of rural and urban. The Project sits on agricultural land. To the north, immediately across I-5, is a housing subdivision, an industrial park and the Sacramento International Airport. To the west and south is more agricultural land, wetlands and the Sacramento River. To the east there are several North Natomas housing subdivisions and commercial parks. **Exhibit B** shows the surrounding topography/setting in more detail.

Land Use and Zoning

Historically the Project site has been used for agriculture and it is currently farmland. The land is zoned by the County of Sacramento as AG, agricultural. Small portions of the land fronting the I-5 have no zoning because they are part of the interstate corridor.

Exhibit D is the current site plan prepared for the Project. As stated previously, the Project annexation area totals 474.4 acres. This is inclusive of the State of California (Caltrans) lands measured roughly to the center of I-5, and also includes the south approximate one-half of the new MAP Interchange. The west boundary extends to the approximate centerline of Power Line Road. Total Caltrans I-5 Right-of-Way (R/W) totals approximately 37.9 acres. This leaves approximately 436.5 gross acres of lands proposed for development.

The Project will include development of an industrial park and highway commercial areas. As shown on **Exhibit C**, the development will include warehouses, restaurants, a hotel and a gas station/carwash. The estimated industrial buildings total 6,609,300 SF.

The Project currently lies outside the County of Sacramento Urban Services Boundary (USB). The USB and the City boundaries represent the limit of the Sacramento County Service areas for SacSewer and SRCSD. As a result, this site has not been included in either of SacSewer and SRCSD's respective Master Plans as a future area to be served. However, when annexed into the City, the Project will also be annexed into the service areas for SacSewer and SRCSD, with the expectation that service will be extended to the Project.



Table 2-1: Land use, acreage and sewer ESDs based on sewer shed area identified in Exhibit E.

LU Code	Land Use Description	Area (ac)	Sewer Density (du/ac)	ESDs
C	Commercial - Restaurant - Gas Station / Carwash - Hotel	13.4	6	80.4
I	Industrial (Warehouse)	311.7	6	1,870.2
Basin	Stormwater Detention Basin	86.0	6	516.0
Buffer	Land Buffer	2.3	6	13.8
PS	Pump Station (Sewer & Stormwater)	0.9	6	5.4
Roads	Internal Roadways & Caltrans Parcel	22.2	6	133.2
I-5	Interstate 5 Corridor	37.9	0	0
TOTAL		461.0474.4		2,619.0

Existing Studies and Document References

The following studies and other documents were reviewed and referenced within this study.

- Sacramento Area Sewer District, Standards and Specifications, November 30, 2021
- Sacramento Area Sewer District, SacSewer System Capacity Plan Update 2020, December 2020
- Sacramento Area Sewer District, SacSewer 2020 System Capacity Plan Expansion Trunk Shed, NN Metro Air Trunk Shed, not dated
- Sacramento Regional County Sanitation District, Interceptor Sequencing Study, February 2013
- Sacramento County, Sacramento International Airport SMF Master Plan Update, July 2020
- City of Sacramento, North Natomas Community Plan, adopted March 3, 2015

3.0 Design & Sewer Flow Information

A schematic sewer layout for the Project is provided in **Exhibit E**. **Exhibit F** provides flow calculations based upon the SacSewer minimum sewer demand of 6 ESDs per acre and the sewer shed areas shown in **Exhibit E**.

3.1 Design Assumptions

This study provides calculations of the ultimate sewer flows that are expected to be generated within the Project area by utilizing acreage and density information provided in the Preliminary Site Plan provided in **Exhibit D** and average dry weather flow (ADWF) in Section 201.1 of the SacSewer Design Standards, dated November 30, 2021.

Assumptions

There were several assumptions used in the design approach for this Level 1 Sewer Study. It is understood that refinement of these assumptions will likely be made as more detailed Level 2 and Level 3 Studies are prepared. The assumptions used for this study are provided below:

- There will be no upstream development that will need to utilize the Project sewer infrastructure. SacSewer's Expansion Trunk Shed Plans for SMF, MAP and lands south of SMF and west of the Project will convey to existing infrastructure within the MAP sewer shed.
- There will be no significant increase in on-site densities that will affect the planned on-site facilities.
- For this Level 1 study, the location of the trunk and collectors are schematic to more clearly show where sewer is loaded into the demand calculations. The exact horizontal location, rim elevation and depth of the pipe and manhole infrastructure will be determined during preparation of Level 2 and Level 3 Sewer Studies.
- Pipe sizes and flow rates were calculated based on the SacSewer design standards and adhere to SacSewer "Minimum Sewer Study Requirements" Criteria.
- Areas that are not expected to generate sewer demand are included in the demand calculations. These areas include stormwater detention basins, land buffers, pump stations, a Caltrans parcel dedication and onsite roadways.

Approach

The following general procedure was used in the development of this study.

1. Gross areas and land use information based on the Preliminary Site Plan provided as **Exhibit D** were used to calculate sewer flows.
2. Sub sheds areas were defined primarily by building sites then by topographic features.
3. ESDs were calculated for each shed based on the underlying land use and shed area.
4. 310 gallons per day is assumed to be the average dry weather flow per ESD.
5. Flows were determined based on the SacSewer Improvement Standards, and on the design criteria and assumptions identified in this study.
6. A permanent pump station will be located on Lot F as shown in the site plan in **Exhibit D**.

7. The pump station will be served by a permanent force main discharging to a Regional San interceptor. The alignment and discharge location of the force main is unknown at this time while stakeholders consider the alternatives provided in **Exhibit G**.

Design Criteria

SacSewer Standards and Specifications, dated November 30, 2021, were used as the basis for this design. The flows were generated using the information found in Chapter 201 (Capacity Design) of SacSewer Standards. Generally, the minimum allowable ESD densities identified in that chapter were utilized; however, higher densities were used as established by land use plan. The densities used for each land use is shown in **Table 2-1**, above. The flow criteria used for this report is presented in **Table 3-1**.

Table 3-1: Design Flow Criteria

Source: Sacramento Area Sewer District

Criteria	Modifier
Flow Generation	
Restaurant	6 ESD/acre
Gas Station / Carwash	6 ESD/acre
Hotel	6 ESD/acre
Warehouse	6 ESD/acre
Stormwater Detention Basin	6 ESD/acre
Land Buffer	6 ESD/acre
Pump Station (Sewer & Stormwater)	6 ESD/acre
Minor, Major and Caltrans Roadways	6 ESD/acre
Peaking Factor	PF = $3.5 - 1.8 * Q_{ADWF}^{0.05}$ (Minimum PF = 1.2)
Minimum Velocity	Minimum 2 fps at Peak Dry Weather Flow
Rainfall Infiltration Factor	1,600 gpd per acre
Hydraulic Grade Line	Maximum HGL at crown of pipe at Peak Wet Weather Flow
Friction Factor (Manning's n-value)	0.01300

Not less than 6 ESD/acre
for any land use.

3.2 Sewer Flow Information

Onsite Sewer Flows

Onsite sewer flows were generated based on design flow criteria identified in Table 3-1 overlaid with the proposed land use. The Project area totals 474.4 acres; however, the sewer demand excludes land that will be dedicated for the I-5 corridor. The remaining land totals 436.5 acres and includes industrial and commercial uses, stormwater detention basins, land buffers, pump stations and internal roadways. While these areas are included in the sewer demand calculations for this level of study, further planning may justify elimination of some of these areas.

Exhibit F summarizes ultimate PWWF conditions when the Project is built out. The ADWF and PWWF are 0.81 mgd and 2.09 mgd, respectively.

Offsite Sewer Flow

There will be no offsite sewer flows, present or future, that will utilize the infrastructure proposed here.

4.0 Sewer Alignments and Facilities

Interim Facilities

There are no interim sewer facilities proposed for the Project. Gravity and collector infrastructure may be extended from the pump station in phases as roadways and commercial facilities are developed; however, those facilities will be sized for the ultimate conditions.

Ultimate Facilities

The gravity trunks and manholes shown in **Exhibit E** are schematic due to the level of this study. The alignments shown may be modified as planning documents are finalized and adopted. Rim and invert information will not be provided until Level 2 and Level 3 studies are prepared.

4.1 Pump Station

The sewer pump station that will serve the Project is anticipated to be sized for the ultimate demand. The pump station will be located on Lot F as shown in the preliminary site plan provided in **Exhibit D**. Based on the demand calculations provided in **Exhibit F**, the ultimate build out of the pump station shed area will require capacity of 2.09 mgd. A pump station design report will be prepared that will detail the major pump station components and their layout and sizes. This report will be provided after a Level 2 or Level 3 Study is prepared.

Jurisdiction for design and construction of the pump station will primarily lie with SacSewer.

4.2 Force Main

Three alternatives for force main routing from the pump station described above are identified in **Exhibit G**. All alternatives provide for discharge to a SacSewer Trunk or a Regional San interceptor. The force main must cross under I-5 to reach these interceptors or trunk sewers.

A previous memorandum was prepared and provided to SacSewer and Regional San dated June 20, 2022, That memorandum identified seven alternative alignments for the future ASI force main. After consideration by SacSewer staff, the following three alignments shown in **Exhibit G** were identified as feasible.

Alternative Alignment #1

This alternative proposes to route the force main as described in Alternative #2 below; however, at Del Paso Road, the force main would be routed within a City freeway buffer parallel with and on the westside of I-5. About ½ mile south of Del Paso, the force main would cross under I-5 within City right-of-way and then discharge into a 48" North Natomas Interceptor within East Commerce Way.

Alternative Alignments #2 & #3:

Both force main alternatives would route east from El Centro Road at Del Paso Road then cross I-5 either north or south of the I-5 on/off ramps. Once on Del Paso Road, the force main would continue east and discharge to a 48" North Natomas Interceptor at Del Paso and East Commerce Way.

Alternative alignments 1, 2 & 3 provide for discharge points into a 48" Regional San interceptor; however, the force main lengths and costs are greater than with Alternatives 1 & 2.

Jurisdiction for design and construction of the force main will lie with SacSewer, City of Sacramento and the California Department of Transportation.

The force mains will have an inner diameter between 10 and 14 inches to maintain velocities through the pipe of 3 to 6 feet per second utilizing ductile iron or high-density polyethylene pipe.

4.3 Trunk and Collector Pipeline Materials

The area within and around the subdivision is known to experience high groundwater; therefore, it is anticipated that SacSewer will prefer the use of polyvinyl chloride pipe (PVC) for all trunk and collector conveyance pipes.

4.4 Preliminary Estimate

As stated previously, the cost estimate for the backbone sewer infrastructure is included as **Exhibit H**. Force Main Alignment No. 1, shown in **Exhibit G**, was used as a basis for the force main cost because it is the longest and most costly force main alternative. The backbone infrastructure cost is estimated at \$13 million.

5.0 Conclusion

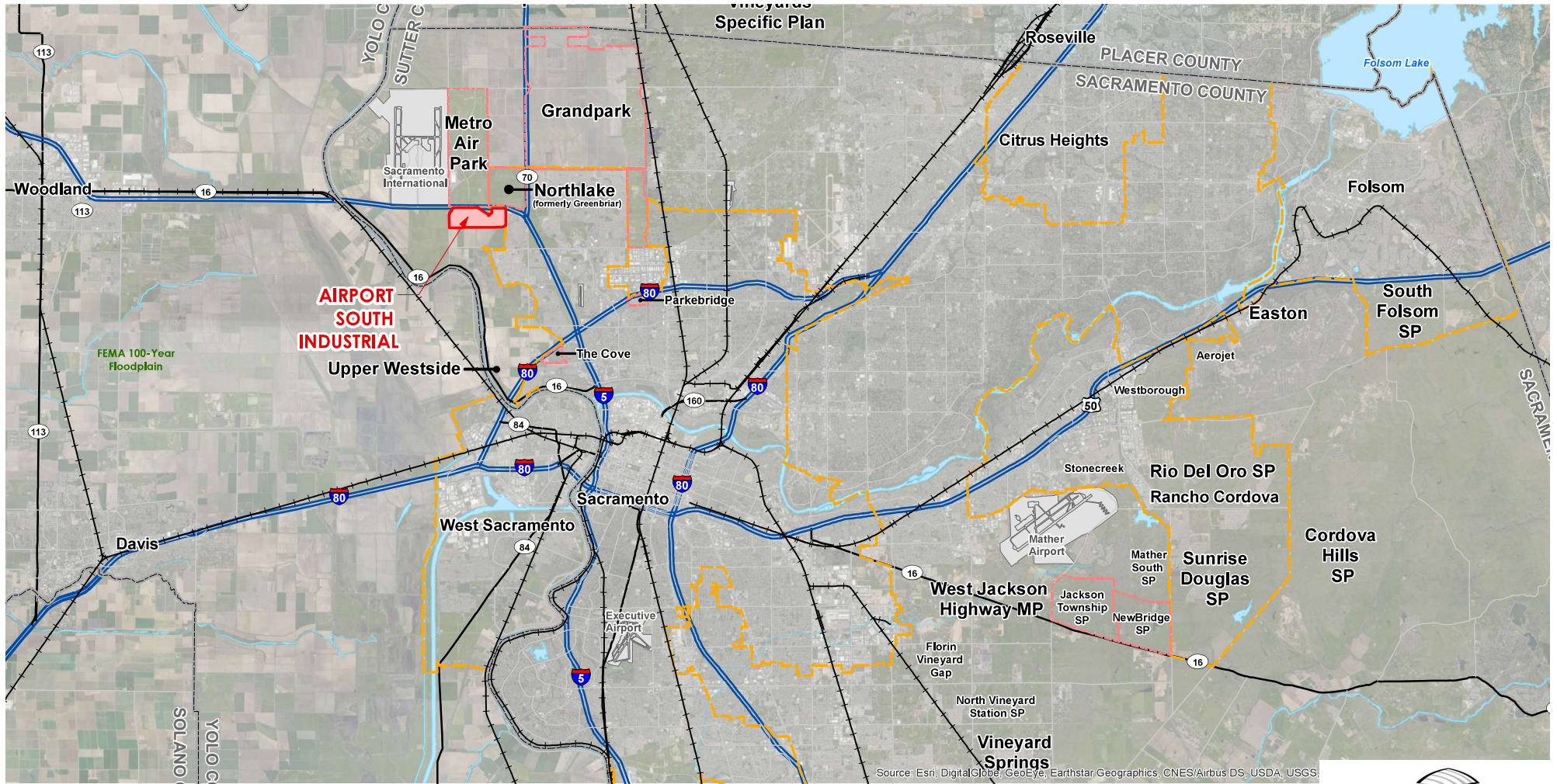
This study has been prepared in accordance with SacSewer design guidelines to schematically identify backbone conveyance facilities, as well as topographic and financial conditions to serve the Airport South Industrial development. The study has been prepared as a Level 1 Sewer Study.

The total size of the Project area is 474.4, but sewer demand is based on 436.5 acres because lands to be dedicated for the I-5 highway corridor are excluded. Sewer demand is based on 2,619 ESDs and calculated buildout flows of 0.81 mgd ADWF and 2.09 mgd PWWF.

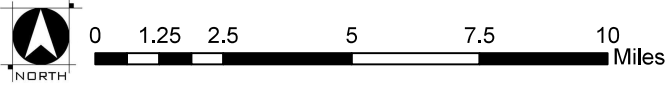
The estimated cost of the backbone infrastructure is \$12,990,000 and includes those facilities that are reimbursable by SacSewer, such as gravity trunk, sewer pump stations and force mains.

EXHIBITS A THRU H

EXHIBIT A REGIONAL LOCATION MAP AIRPORT SOUTH INDUSTRIAL



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS



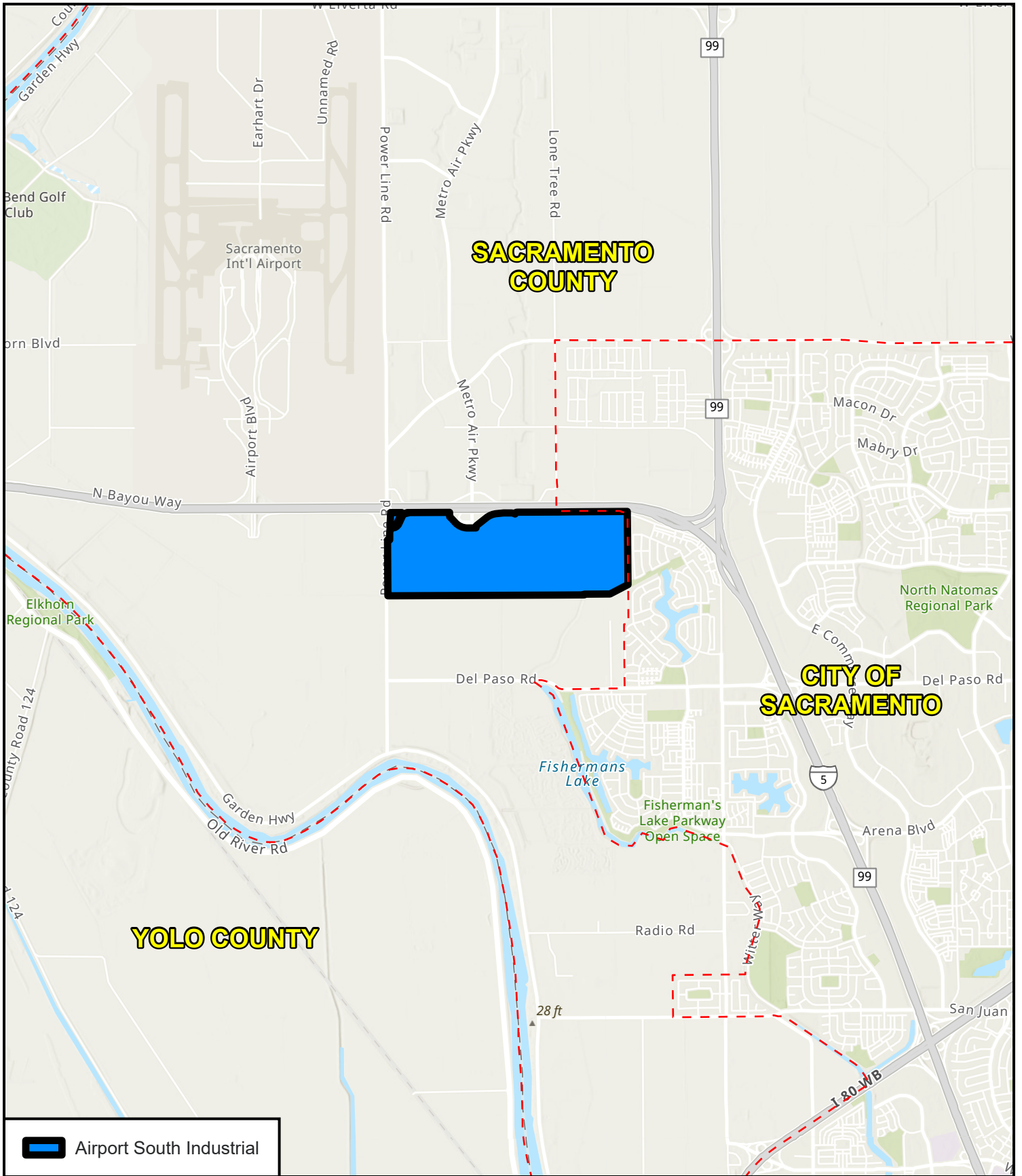


EXHIBIT B
SURROUNDING TOPOGRAPHY
 AIRPORT SOUTH INDUSTRIAL
 SACRAMENTO, CA
 AUGUST 2022

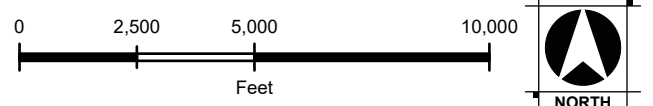


EXHIBIT C
Airport South Industrial
Land Use Summary
 20-Jun-22

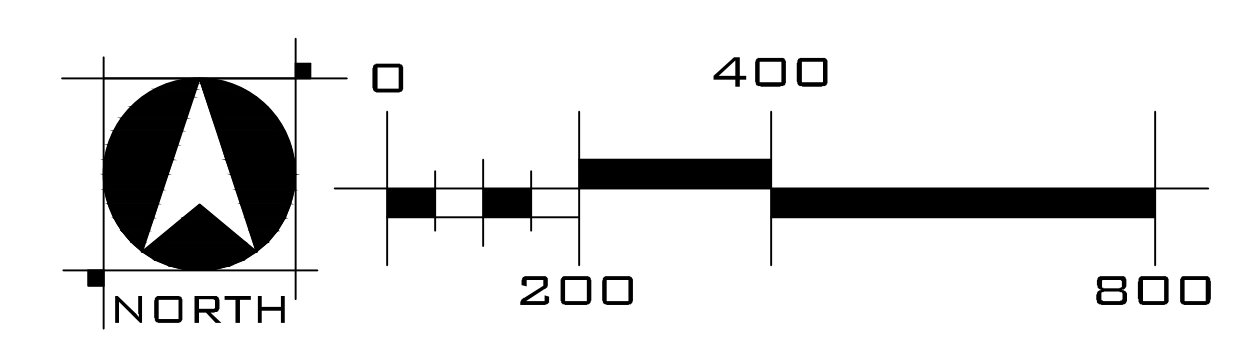
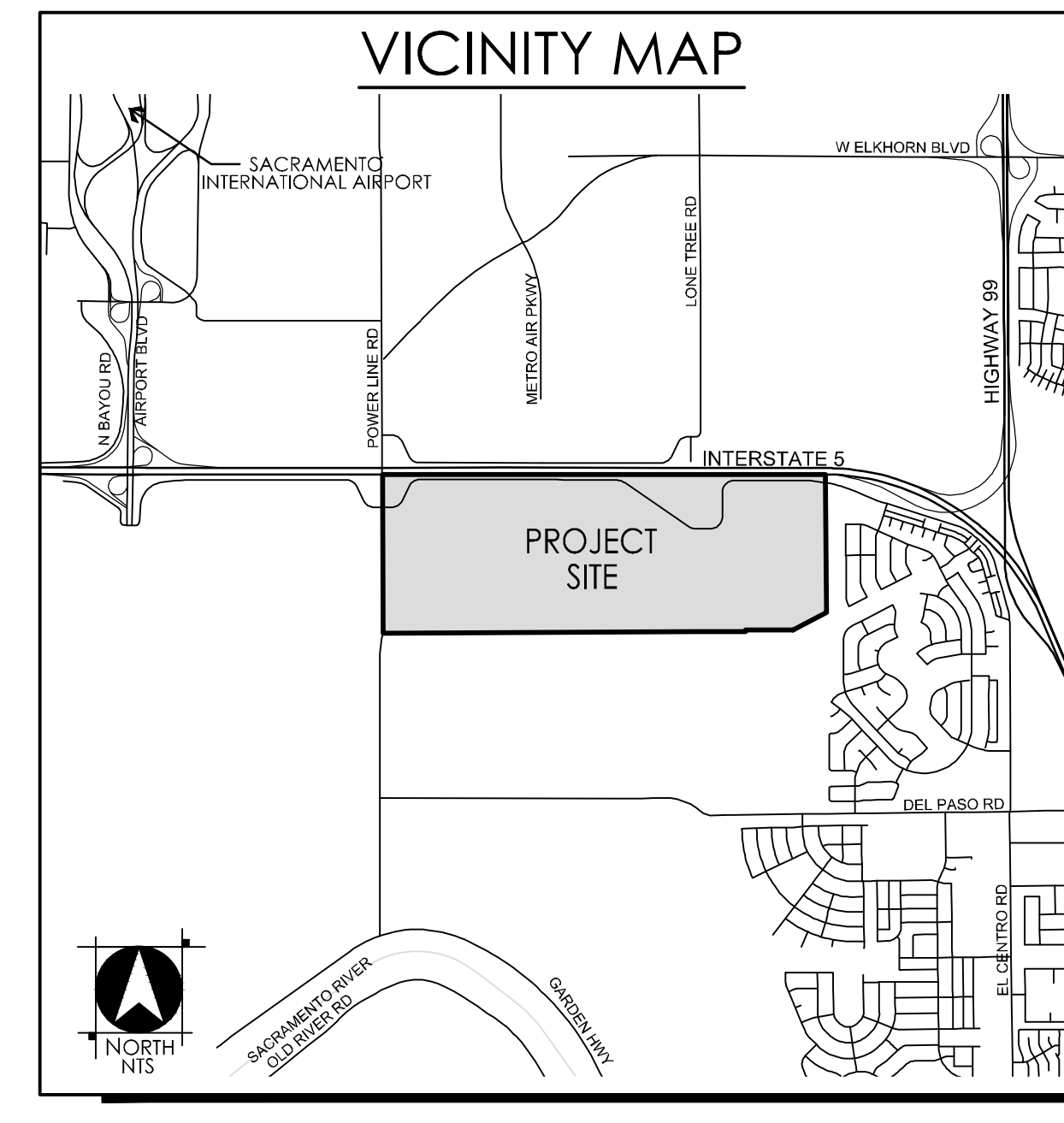
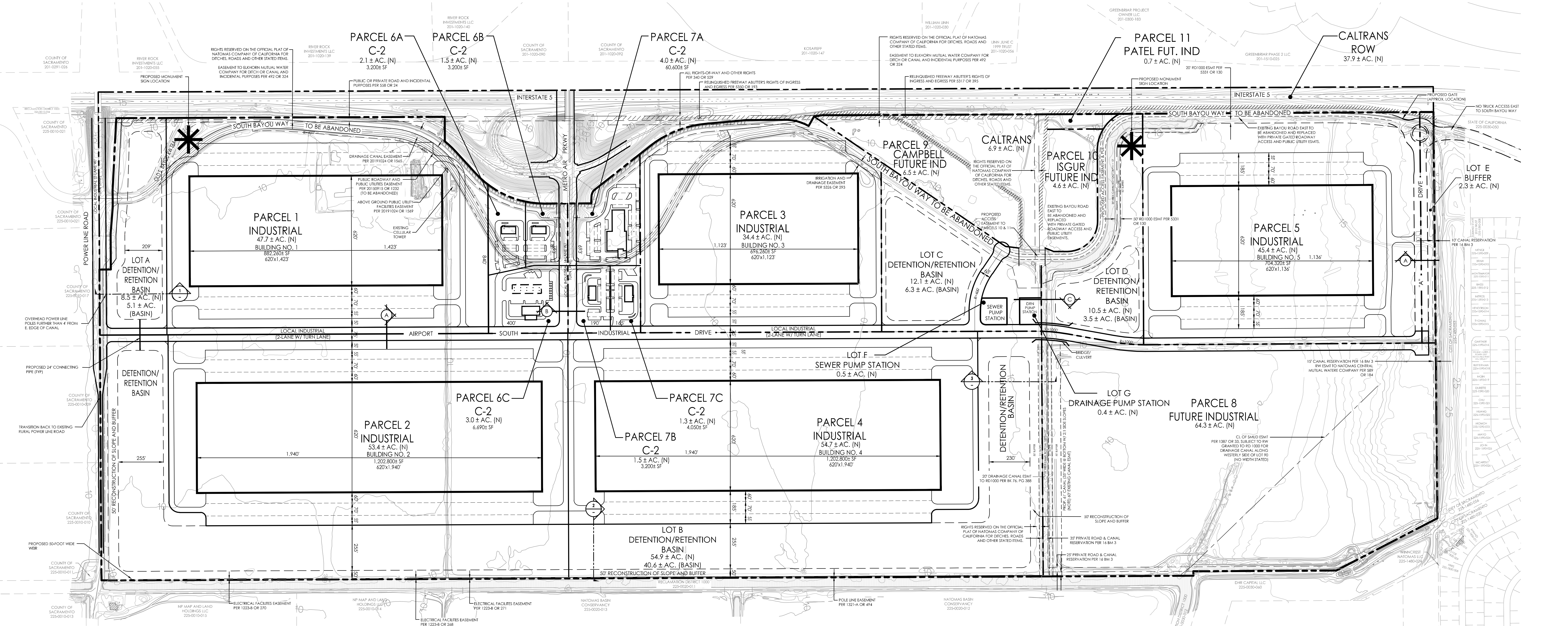
Site Plan Lot Number	Land Owner	Proposed Land Use	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands							
1	NorthPoint / AKT Investments	Warehouse Distribution	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	53.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	34.4	696,260	0.46	Calculated	772,900
4	NorthPoint / AKT Investments	Warehouse Distribution	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	<u>45.4</u>	<u>704,320</u>	0.36	Calculated	<u>781,800</u>
Subtotal Warehouse			235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	<u>1.3</u>	<u>4,050</u>	0.07	Calculated	<u>5,000</u>
Subtotal Retail Commercial			13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Detention Basin	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Detention Basin	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Detention Basin	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Detention Basin	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	<u>0.4</u>	-----	-----	-----	-----
Subtotal Public Facilities			89.2	-----	-----	-----	-----
-----	NorthPoint / AKT Investments	Internal Roadways	<u>15.3</u>	-----	-----	-----	-----
Subtotal Internal Roadways			15.3	-----	-----	-----	-----
Total for Applicant Sponsored Lands			353.5	4,769,380.0	0.31	Average	5,302,700.0
Future Industrial Lands							
8	Cayocca	Future Industrial	64.3	980,318	0.35	Estimated	1,088,200
9	Campbell	Future Industrial	6.5	99,099	0.35	Estimated	110,000
10	Isgur	Future Industrial	4.6	70,132	0.35	Estimated	77,900
11	Patel	Future Industrial	0.7	10,672	0.35	Estimated	11,900
-----	Caltrans Remnant	Future Industrial	6.9	<u>105,197</u>	0.35	Estimated	<u>116,800</u>
Subtotal			83.0	1,265,418	0.35	Check Average	1,404,800
Subtotal Developable Lands (Warehousing/Distribution)			318.6	5,953,858	0.43	Average	6,609,300
Subtotal Developable Lands (Highway Commercial)			13.4	80,940	0.14	Average	98,200
Subtotal Developable Lands (Public Facilities and Internal Roadways)			104.5	-----	-----	-----	-----
Total Developable Lands			436.5	6,034,798	0.32	Average	6,707,500
Caltrans I-5 Fee Title R/W			37.9	-----	-----	-----	-----
Grand Total			474.4	-----	-----	-----	-----

Notes:

1. Net acreage used in order to estimate Building Square footage information and / or calculate the FAR.
2. Internal Roadways include ASI Drive, Metro Air Parkway and Power Line Road.
3. Caltrans I-5 Fee Title lands included in the land proposed for annexation to the City of Sacramento
4. Sq-Ft for building coverage 1) based on the site plan for Applicant lands and 2) calculated based on an average FAR for Future Industrial Lands.
5. Application of a 11% factor applied to the industrial lands and 21% added to the retail / commercial lands to arrive at the planning level estimated totals.

PRELIMINARY SITE PLAN AIRPORT SOUTH INDUSTRIAL CITY OF SACRAMENTO, CALIFORNIA AUGUST 15, 2022

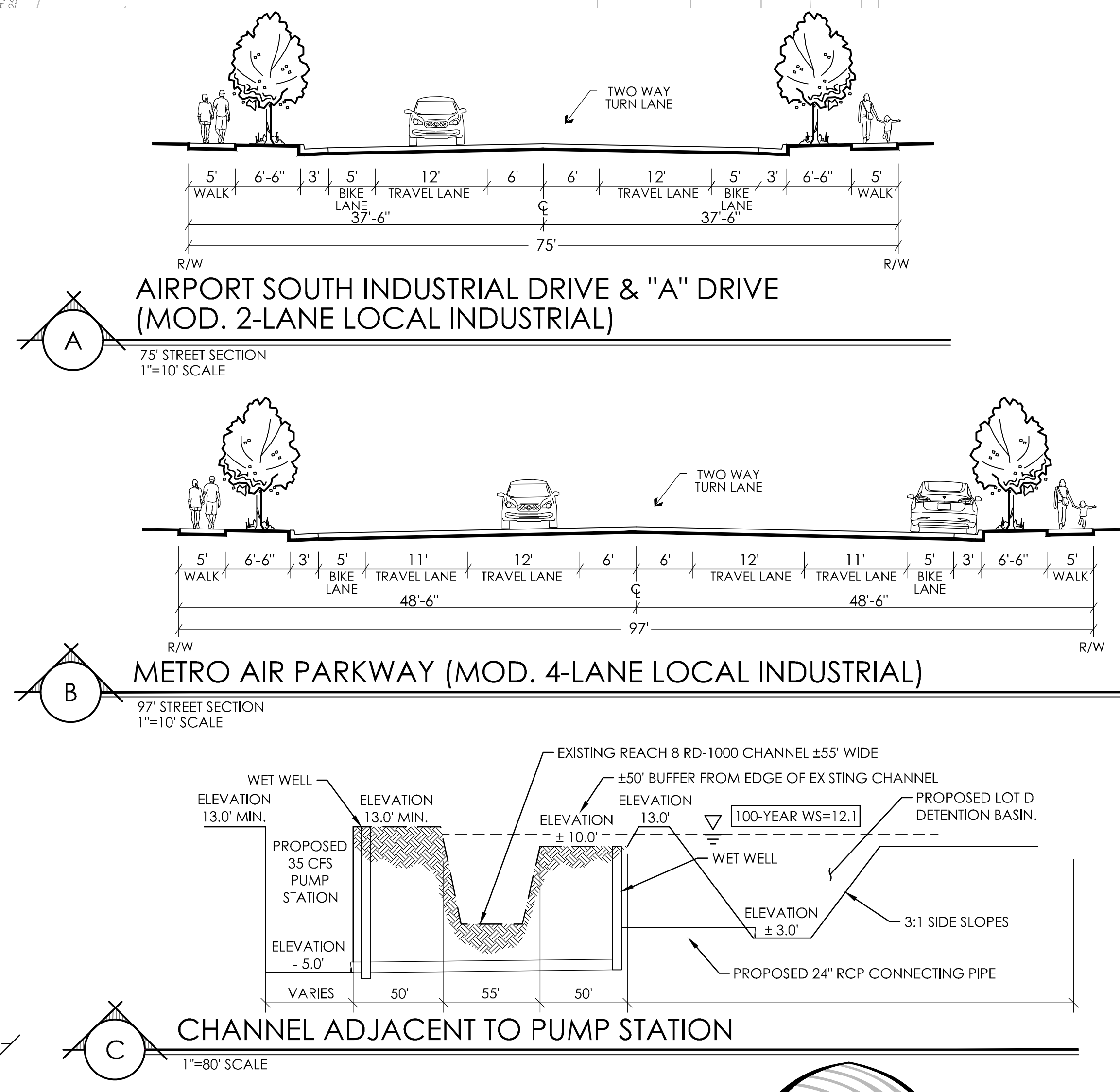
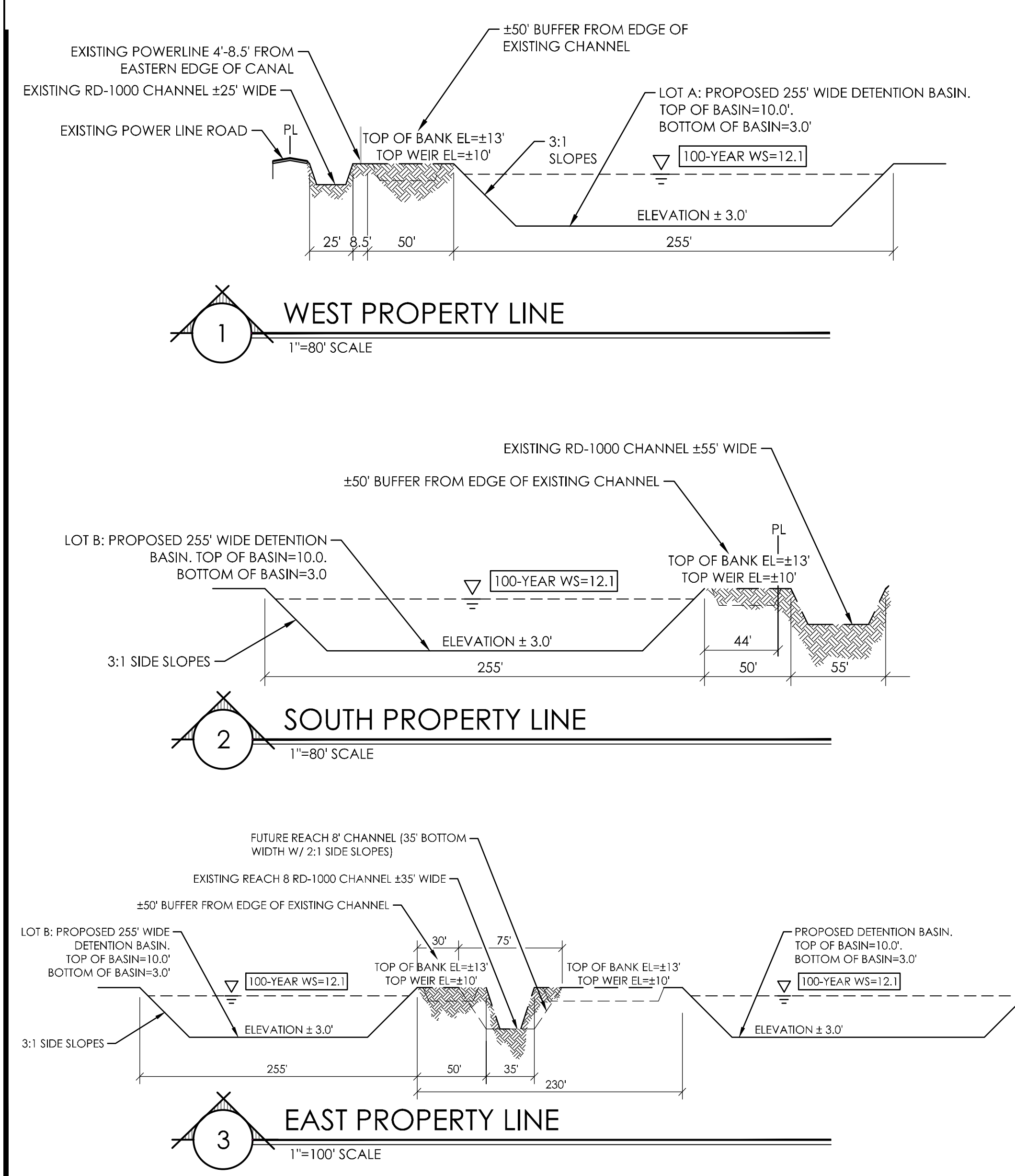
EXHIBIT D



LAND USE SUMMARY

Site Plan Lot Number	Land Owner	Proposed Land Use	GP Designation	Zone	Net Acreage	Bldg SF	Floor Area Ratio (FAR)	FAR Calc'd or Used for SF Est.	Use for Est. Bldg SF
Project Applicant Sponsored Lands									
1	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	47.7	882,260	0.42	Calculated	979,400
2	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	53.4	1,202,800	0.52	Calculated	1,335,200
3	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	34.4	696,260	0.46	Calculated	772,900
4	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	54.7	1,202,800	0.50	Calculated	1,335,200
5	NorthPoint / AKT Investments	Warehouse Distribution	Industrial (FAR: N/A-1.0)	M-1	45.4	704,320	0.36	Calculated	781,800
Subtotal Warehouse					235.6	4,688,440	0.46	Average	5,204,500
6A	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	2.1	3,200	0.03	Calculated	3,900
6B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
6C	NorthPoint / AKT Investments	Fueling Station/Carwash	EC-Low Rise (FAR: 0.15-1.0)	C-2	3.0	6,690	0.05	Calculated	8,100
7A	NorthPoint / AKT Investments	Hotel	EC-Low Rise (FAR: 0.15-1.0)	C-2	4.0	60,600	0.35	Calculated	73,400
7B	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.5	3,200	0.05	Calculated	3,900
7C	NorthPoint / AKT Investments	Restaurant	EC-Low Rise (FAR: 0.15-1.0)	C-2	1.3	4,050	0.07	Calculated	5,000
Subtotal Retail Commercial					13.4	80,940	0.14	Average	98,200
A	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	8.5	-----	-----	-----	-----
B	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	54.9	-----	-----	-----	-----
C	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	12.1	-----	-----	-----	-----
D	NorthPoint / AKT Investments	Retention/Retention Basin	Industrial	M-1	10.5	-----	-----	-----	-----
E	NorthPoint / AKT Investments	Buffer	Industrial	M-1	2.3	-----	-----	-----	-----
F	NorthPoint / AKT Investments	Sewer Pump Station	Industrial	M-1	0.5	-----	-----	-----	-----
G	NorthPoint / AKT Investments	Drainage Pump Station	Industrial	M-1	0.4	-----	-----	-----	-----
Subtotal Public Facilities					89.2	-----	-----	-----	-----
Subtotal Internal Roadways					15.3	-----	-----	-----	-----
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Grand Total					474.4	-----	-----	-----	-----

- Notes:
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THIS SITE PLAN IS FOR PRELIMINARY PLANNING PURPOSES ONLY AND SUBJECT TO CHANGE PRIOR TO FINAL APPROVAL.

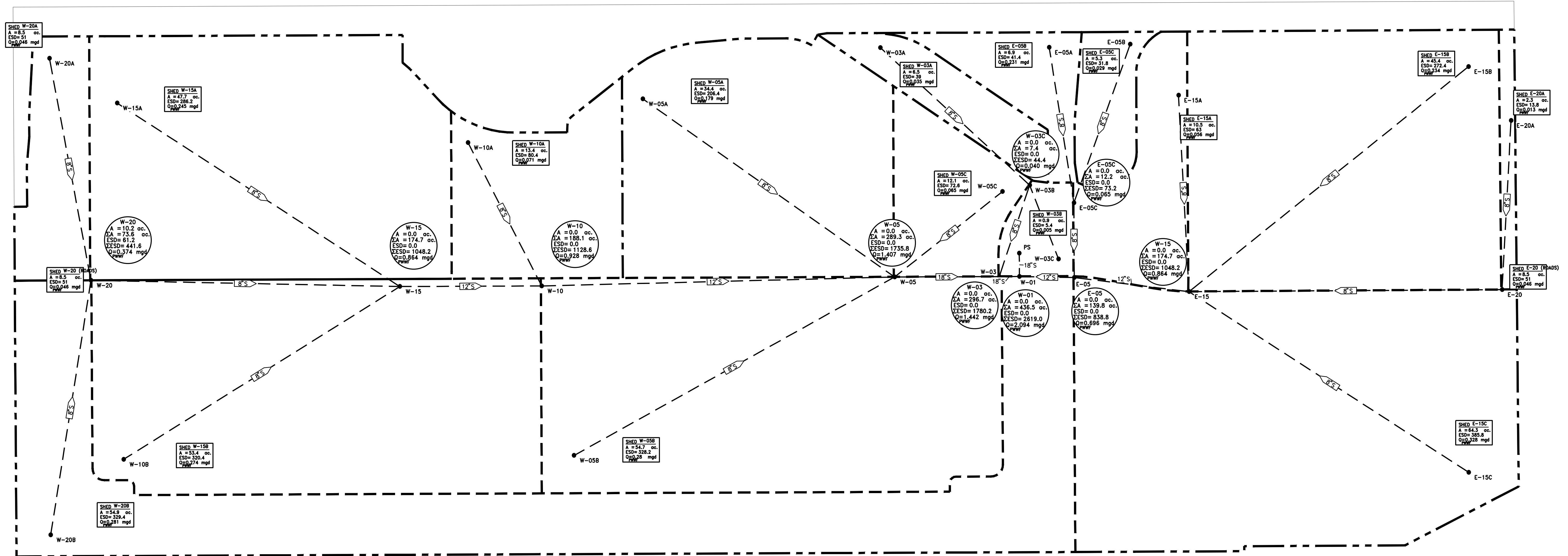
WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
3301 C St. Bldg. 100-B Sacramento, CA 95816
Tel 916.341.7760 Fax 916.341.7767

EXHIBIT E - SCHEMATIC SEWER SYSTEM LAYOUT

AIRPORT SOUTH INDUSTRIAL

SACRAMENTO CALIFORNIA

NOVEMBER 2022



VERTICAL DATUM NGVD 29 ELEV. 15.66

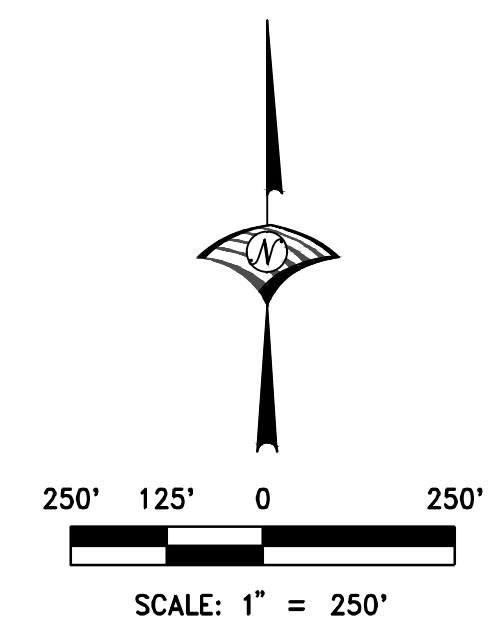
SACRAMENTO COUNTY BENCHMARK 01A-43

2" BRASS DISC STAMPED "SACRAMENTO CO." DEPT. OF PUBLIC WORKS CO.B.M.1A-43 ZAC 1968" LOCATED IN TOP OF NORTH EDGE OF SOUTH CONCRETE WALK OVER WEST ABUTMENT OF CONCRETE BRIDGE APPROX. 25' SOUTH OF THE CENTER OF PAVEMENT OF ELKHORN BLVD. AT EAST DRAINAGE CANAL & 1.2 MILE WEST OF EAST LEVEL RD. SEE L.L. E-37. LEVELS RUN FROM U.S.C.&U.S. B.M. J-1031 & U.S.G.S. B.M. DATUM B 66 1904. (APRIL 29 1968)

NAVD88 = NGVD29 + 2.14'

LEGEND

278' @	← PIPE LENGTH	1	← NODE NUMBER
12'S	← PROPOSED SEWER PIPE (INCHES)	A = 0.00 ac.	← POINT ACREAGE
S=0.0018	← PIPE SLOPE	ΣA = 19.9 ac.	← CUMULATIVE ACREAGE
		ESD=0	← POINT ESD
INV=154.59	← PIPE INVERT	ΣESD=108	← CUMULATIVE ESD
RIM=61.5	← MANHOLE RIM ELEV.	Q = 0.09 mgd	← PEAK WET WEATHER FLOW (MGD)
D=13.1	← DEPTH		
—●—	← PROPOSED SEWER	SHED B8	← SHED NUMBER
—○—	← SCHEMATIC SEWER	A = 0.12 ac.	← SHED AREA
—●—	← EXISTING SEWER	ESD=192.4	← SHED ESD
- - -	← INDIVIDUAL SHED BOUNDARY	Q = 0.17 mgd	← SHED PEAK WET WEATHER FLOW (MGD)
- - - -	← PROJECT BOUNDARY		



WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 3301 C ST, BLDG. 100-B TEL 916.341.7760
 SACRAMENTO, CA 95816 FAX 916.341.7767

AIRPORT SOUTH INDUSTRIAL
Sewer Study - Demand & Hydraulic Analysis

Updated: 8/30/2022

US Node #	DS Node #	C ¹	I ²	Basin	Buffer	PS	Roads ³	Total Shed		Culmulative Sheds		Average Flows, Q		Infiltrtn	Peak Flows, Q _p		Pipe Performance (@ Q _{PWWF})			
		6 DU/AC	6 DU/AC	6 DU/AC	6 DU/AC	6 DU/AC	6 DU/AC	(acres)	(ESD)	(acres)	(ESD)	Q _{AVG}	Peaking Factor	Q _{i/I}	Q _{PDWF}	Q _{PWWF}	Size (inch)	Slope (ft/ft)	Velocity (fps)	d/D
AIRPORT SOUTH INDUSTRIAL																				
W-20A	W-20			8.5				8.5	51.0	8.5	51.0	0.016	2.0	0.014	0.032	0.046	8"	0.0035	1.30	0.21
W-20B	W-20			54.9				54.9	329.4	54.9	329.4	0.102	1.9	0.088	0.193	0.281	8"	0.0035	2.15	0.56
W-20	W-15						10.2	10.2	61.2	73.6	441.6	0.137	1.9	0.118	0.256	0.374	8"	0.0035	2.28	0.68
W-15A	W-15		47.7					47.7	286.2	47.7	286.2	0.089	1.9	0.076	0.169	0.245	8"	0.0035	2.08	0.52
W-15B	W-15		53.4					53.4	320.4	53.4	320.4	0.099	1.9	0.085	0.188	0.274	8"	0.0035	2.14	0.55
W-15	W-10									174.7	1048.2	0.325	1.8	0.280	0.584	0.864	12"	0.0022	2.37	0.68
W-10A	W-10	13.4						13.4	80.4	13.4	80.4	0.025	2.0	0.021	0.050	0.071	8"	0.0035	1.49	0.27
W-10	W-05									188.1	1128.6	0.350	1.8	0.301	0.627	0.928	12"	0.0022	2.40	0.71
W-05A	W-05		34.4					34.4	206.4	34.4	206.4	0.064	1.9	0.055	0.124	0.179	8"	0.0035	1.91	0.43
W-05B	W-05		54.7					54.7	328.2	54.7	328.2	0.102	1.9	0.088	0.193	0.280	8"	0.0035	2.14	0.56
W-05C	W-05			12.1				12.1	72.6	12.1	72.6	0.023	2.0	0.019	0.045	0.065	8"	0.0035	1.44	0.25
W-05	W-03									289.3	1735.8	0.538	1.8	0.463	0.944	1.407	18"	0.0012	2.15	0.56
W-03A	W-03C		6.5					6.5	39.0	6.5	39.0	0.012	2.1	0.010	0.025	0.035	8"	0.0035	1.20	0.19
W-03B	W-03C					0.9		0.9	5.4	0.9	5.4	0.002	2.2	0.001	0.004	0.005	8"	0.0035	0.66	0.08
W-03C	W-03									7.4	44.4	0.014	2.0	0.012	0.028	0.040	8"	0.0035	1.25	0.20
W-03	W-01									296.7	1780.2	0.552	1.8	0.475	0.967	1.442	18"	0.0012	2.17	0.57
E-20A	E-20				2.3			2.3	13.8	2.3	13.8	0.004	2.1	0.004	0.009	0.013	8"	0.0035	0.88	0.12
E-20	E-15						5.1	5.1	30.6	7.4	44.4	0.014	2.0	0.012	0.028	0.040	8"	0.0035	1.25	0.20
E-15A	E-15			10.5				10.5	63.0	10.5	63.0	0.020	2.0	0.017	0.039	0.056	8"	0.0035	1.39	0.24
E-15B	E-15		45.4					45.4	272.4	45.4	272.4	0.084	1.9	0.073	0.161	0.234	8"	0.0035	2.05	0.50
E-15C	E-15		64.3					64.3	385.8	64.3	385.8	0.120	1.9	0.103	0.225	0.328	8"	0.0035	2.23	0.62
E-15	E-05									127.6	765.6	0.237	1.8	0.204	0.433	0.637	12"	0.0022	2.22	0.55
E-05A	E-05C						6.9	6.9	41.4	6.9	41.4	0.013	2.1	0.011	0.026	0.037	8"	0.0035	1.22	0.19
E-05B	E-05C		5.3					5.3	31.8	5.3	31.8	0.010	2.1	0.008	0.020	0.029	8"	0.0035	1.14	0.17
E-05C	E-05									12.2	73.2	0.023	2.0	0.020	0.046	0.065	8"	0.0035	1.45	0.25
E-05	W-01									139.8	838.8	0.260	1.8	0.224	0.473	0.696	12"	0.0022	2.26	0.58
W-01	PS									436.5	2619.0	0.812	1.7	0.698	1.395	2.094	18"	0.0012	2.33	0.73
PS	INT									436.5	2619.0	0.812	1.7	0.698	1.395	2.094	18"	0.0012	2.33	0.73
TOTALS/MAX		13.4	311.7	86.0	2.3	0.9	22.2	436.5	2619.0	436.5	2619.0	0.812		0.698	1.395	2.094				

Footnotes:

1. C - Commercial includes restaurants, gas station/carwash and hotel.
2. I - Warehouse / Industrial includes initial and future warehouse/industrial areas.
3. Roads include internal and Caltrans parcel. Roads does not include I-5 highway corridor.
4. All land uses are assumed to be 6 sewer ESDs per acre.
5. PS = Pump Station, INT = Ultimate force main discharge at Regional San interceptor (know shown on system layout)

SUTTER COUNTY

YUBA COUNTY

AIRPORT SOUTH INDUSTRIAL SEWER FORCE MAIN ALTERNATIVES NOVEMBER 2022

**SACRAMENTO
INTERNATIONAL
AIRPORT**

**METRO
AIR
PARK**



Existing
SASD
MAP/SIA FM

NORTHLAKE

Existing
SASD
Trunk

Existing
Upper
Northwest
Interceptor

Elkhorn Boulevard



Bayou Way

Proposed Sewer
Pump Station

FM to serve
all alternatives

**AIRPORT SOUTH
INDUSTRIAL**

SACRAMENTO COUNTY

Connection Point Alt #2 & #3

Del Paso Road

Connection Point Alt #1

Existing
North Natomas
Interceptor
(SRCSD)

YOLO COUNTY

El Centro Road



San Juan Road

New Natomas
Pump Station



ASI FM Alternatives

- Backbone
- #1
- #2
- #3
- SASD & SRCSD Service Areas
- Sacramento City Limit





**Airport South Industrial Sewer System
 Engineer's Estimate of Construction Costs
 Project No. 3909004**

Updated: August 29, 2022

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Pump Station General					
1	Bonds/Ins/Contract Admin/Incidentals	1	LS	\$172,000	\$172,000
2	Mobilization and Demobilization	1	LS	\$429,000	\$429,000
3	Sheeting, Shoring, Bracing, and Dewatering	1	LS	\$172,000	\$172,000
4	SWPPP Implementation and Maintenance	1	LS	\$12,000	\$12,000
5	Pump Station Commissioning	1	LS	\$30,000	\$30,000
Pump Station General Subtotal					\$815,000
B. Pump Station Sitework and Underground					
6	CMU Security Wall & Pilasters	143	LF	\$650	\$92,950
7	Steel Drive Gates	2	EA	\$25,000	\$50,000
8	Steel Man Gate	1	EA	\$8,000	\$8,000
9	Miscellaneous Site Work/Finish Grading/Hydroseeding	1	LS	\$20,000	\$20,000
10	Paving and Aggregate Base Surfacing	11,100	SF	\$12	\$133,200
11	Removable Bollards	22	EA	\$2,000	\$44,000
12	1.5" Water Service & Hose Bibb	1	EA	\$5,000	\$5,000
13	Shade Canopy	1	LS	\$75,000	\$75,000
14	30" VCP Gravity Trunk	65	LF	\$880	\$57,200
15	60-inch Manhole	1	EA	\$20,000	\$20,000
16	Overhead Crane & Equipment	1	LS	\$150,000	\$150,000
Pump Station Sitework and Underground Subtotal					\$655,350
C. Pump Station Civil & Mechanical					
17	Earthwork – Excavation, Import, Backfill, Spoil	8,000	CY	\$30	\$240,000
18	Wet Well & Hatches	1	LS	\$200,000	\$200,000
19	280 HP Submersible Centrifugal Pumps and Accessories	3	EA	\$150,000	\$450,000
20	Valve Vault and Hatch	1	LS	\$95,000	\$95,000
21	Flow Meter Vault & Hatch	1	LS	\$30,000	\$30,000
22	Force Main Bypass Valve Vault and Hatch	1	LS	\$18,000	\$18,000
23	Odor Control Pad and Piping	1	LS	\$16,000	\$16,000
24	Discharge Piping, Fittings & Assembly	1	LS	\$100,000	\$100,000
25	Cathodic Protection	1	LS	\$50,000	\$50,000
26	Miscellaneous (Washdown pad, odor control pad, & drain)	1	LS	\$50,000	\$50,000
Pump Station Civil & Mechanical Subtotal					\$1,249,000
D. Pump Station Electrical					
27	Switchboard, MCC, RTU Cabinet, Programming	1	LS	\$150,000	\$150,000
28	Electrical Distribution/Conduit and Conductors	1	LS	\$35,000	\$35,000
29	Field Instruments (Level Transducer, High Level, Pressure Xmtr)	1	LS	\$18,000	\$18,000
30	Field Instruments (Flow Meter)	1	LS	\$18,000	\$18,000
31	Balance of Electrical Materials, Equipment, & Labor	1	LS	\$25,000	\$25,000
32	Site Lighting & Receptacles	1	LS	\$10,000	\$10,000
33	Utility Transformer & Labor	1	LS	\$25,000	\$25,000
34	Diesel Power Generator	1	LS	\$110,000	\$110,000
Pump Station Electrical Subtotal					\$391,000

EXHIBIT H

	E. Gravity Trunk				
35	18-inch PVC Piping (C900 DR14)	750	LF	\$300	\$225,000
36	60-inch Manhole (Polymer Concrete)	5	EA	\$20,000	\$100,000
	Gravity Trunk Subtotal				\$325,000
	E. Force Main (Based on Alternative 1)				
37	16" HDPE Force Main (DR11)	16,500	LF	\$300	\$4,950,000
38	30" Jack & Bore Casing	450	LF	\$2,000	\$900,000
39	60" Airgap Manhole & Connections	1	EA	\$50,000	\$50,000
40	72" Interceptor Manhole & Connections	1	EA	\$50,000	\$50,000
	Force Main (Based on Alternative 1) Subtotal				\$5,950,000
Subtotal A - D:					\$3,110,000
Subtotal A - E:					\$3,440,000
Subtotal A - F:					\$9,390,000
Contingency (20%) :					\$1,880,000
Total Estimated Construction Cost :					\$11,270,000

Planning, Studies & Engineering (PSE)	10%	\$940,000
Construction Management, Testing & Inspection (CMI)	8%	\$750,000
Project Cost Estimate (Construction, PSE, CMI)		\$12,960,000

Notes:

1. The Probable Construction Cost above is based on costs from similar projects. Neither Wood Rodgers nor the Client has any control over the cost of labor, materials, equipment, the Contractors' methods of determining bid prices, or other competitive bidding markets. Prices may vary from engineer's estimate due to bidding climate, competition, and materials escalation at time of receiving bids. Wood Rodgers, Inc. does not assume responsibility for the use of these costs in budget analysis and will not be held liable for capital improvement cost increases associated with the development of this project.
2. Gravity construction cost estimate excludes non-reimbursable collector system.

APPENDIX N



SACRAMENTO AIRPORT SOUTH INDUSTRIAL DEVELOPMENT LOCAL TRANSPORTATION ANALYSIS

DRAFT REPORT

FEBRUARY 5, 2024

PREPARED FOR:

CITY OF SACRAMENTO



428 J STREET, SUITE 340 • SACRAMENTO, CA 95814 • 916.368.2000 • DKSASSOCIATES.COM

TABLE OF CONTENTS

- Introduction.....1
- Project Description1
- Analysis Scenarios.....1
- Environmental Setting.....2
 - Roadway System.....2
 - Existing Pedestrian System.....6
 - Existing Bicycle System6
 - Transit System7
 - Study Area8
 - Existing Intersection Geometry9
 - Data Collection9
 - Regulatory Setting 13
 - City Of Sacramento Traffic Impact Guidelines (2022).....13
 - Sacramento 2035 General Plan13
 - Sacramento County14
 - Level Of Service And Queue Length Analysis And Methodology 16
- Existing Traffic Conditions 17
 - Intersection Operations Analysis..... 17
 - Segment Operations Analysis..... 22
- Project Travel Characteristics 25
 - Trip Generation and Distribution 25
- Deficiency Thresholds..... 30
 - Intersections – City Of Sacramento 30
 - Intersections – Sacramento County 30
 - Segments – City Of Sacramento 31
 - Segments – Sacramento County 31
 - Caltrans Facilities..... 31
 - Transit..... 31
 - Bicycle Facilities..... 31
 - Pedestrian Circulation 31
 - Construction-Related Traffic Impacts..... 31

Traffic Forecasting Methodology	32
Baseline and Baseline with Project Traffic Conditions	36
Traffic Volumes and lane configurations.....	36
Intersection Operations Analysis.....	46
Segment Operations Analysis.....	55
Cumulative and Cumulative with Project Traffic Conditions	59
Traffic Volumes and lane configurations.....	59
Intersection Operations Analysis.....	68
Segment Operations Analysis.....	79
Circulation Guidelines Review	83
Driveway Control Type and Spacing.....	83
Driveway Throat Lengths.....	84
Bicycle Access	87
Pedestrian Access	87
Truck Access	87
Deficiencies and Recommendations	88
Operational Deficiency 1:	88
Operational Recommendation 1:	88
Operational Deficiency 2:	88
Operational Recommendation 2:	89
Operational Recommendation 3:	89
Active Transportation deficiency 1:	90
Active Transportation recommendation 1:	90

LIST OF FIGURES

Figure 1. Study Area	4
Figure 2. Project Site Plan.....	5
Figure 3. Bikeways	6
Figure 4. Regional Transit Map.....	7
Figure 5. Intersection Identification	10
Figure 6. Existing Lane Configurations, Traffic Control, & AM and PM Volumes.....	11
Figure 7. Urban Services Boundary Map (as of January 1, 2020).....	15
Figure 8: Existing Segment Volumes	24
Figure 9: Baseline with Project trip distribution for Industrial Uses	26
Figure 10: Baseline with Project trip distribution for Highway Commercial Uses	27
Figure 11: Internal Site Distribution (Industrial Trips).....	28
Figure 12: Internal Site Distribution (Commercial Trips).....	29
Figure 13: Study Area Traffic Analysis Zone Splits.....	33
Figure 14: Study Area Traffic Model Roadway Networks.....	35
Figure 15. Baseline Lane Configurations, Traffic Control, & AM and PM Volumes.....	41
Figure 16. Baseline with Project Lane Configurations, Traffic Control, & AM and PM Volumes	43
Figure 17: Baseline Segment Volumes	57
Figure 18: Baseline with Project Segment Volumes.....	58
Figure 19. Cumulative Lane Configurations, Traffic Control, & AM and PM Volumes.....	63
Figure 20. Cumulative with Project Lane Configurations, Traffic Control, & AM and PM Volumes	65
Figure 21: Cumulative Segment Volumes	81
Figure 22: Cumulative with Project Segment Volumes.....	82
Figure 23: Airport South Industrial Drive Intersection Spacing	84
Figure 24. Site Plan Throat Length Dimensions.....	86

LIST OF TABLES

Table 1: Project Analysis Scenarios	1
Table 2. Intersection Level of Service	16
Table 3. Level of service threshold for roadway segment.....	17
Table 5. Existing Intersection Operations Analysis.....	19
Table 6. Existing Intersection Queue Analysis.....	21
Table 7: Existing Segment Results Summary	22
Table 9: Recommended Trip generation (Net new Trips)	25
Table 10: Geometry Comparison Table: Existing to Baseline.....	37
Table 11: Geometry Comparison Table: Baseline to Baseline with Project	40
Table 12. Baseline and Baseline with Project Intersection Operations Analysis.....	47
Table 13. Baseline Intersection Queue Analysis.....	52
Table 14. Baseline with Project Intersection Queue Analysis	53
Table 15: Baseline Segment Results Summary.....	55
Table 18: Geometry Comparison Table: Existing to Cumulative	60
Table 19: Geometry Comparison Table: Cumulative to Cumulative with Project	62
Table 20. Cumulative and Cumulative with Project Intersection Operation Analysis	70

Table 21. Cumulative Intersection Queue Analysis.....	74
Table 22. Cumulative with Project Intersection Operation Analysis.....	76
Table 23: Cumulative Segment Results Summary.....	79
Table 26. Baseline with Project Operational Deficiency Summary.....	91
Table 27. Cumulative with Project Operational Deficiency Summary.....	92

APPENDICES

- A. TRAFFIC COUNT DATA
- B. TRIP GENERATION AND DISTRIBUTION MEMORADUM
- C. SIMTRAFFIC REPORTS – EXISTING
- D. SIMTRAFFIC REPORTS – BASELINE
- E. SIMTRAFFIC REPORTS – BASELINE + PROJECT
- F. SIMTRAFFIC REPORTS – CUMULATIVE
- G. SIMTRAFFIC REPORTS – CUMULATIVE + PROJECT
- H. SIGNAL WARRANTS

INTRODUCTION

This Local Transportation Analysis (LTA) addresses transportation and circulation conditions associated with a proposed development project on the south side of I-5 at the Metro Air Parkway interchange in Sacramento, CA. The analysis focuses on the project’s relationship to the City and County street system, including nearby intersections, the proposed access points, and on-site circulation. The analysis also includes consideration of motorized vehicle traffic impacts on roadway capacity and potential impacts to transit, bicyclists, and pedestrians.

PROJECT DESCRIPTION

The proposed project consists of approximately 5.2 million square feet of warehouse distribution centers, 98.2 thousand square feet of food and service industry, and reserves area for a further 1.4 million square feet of future industrial uses. As illustrated in **Figure 1**, the 422-acre Sacramento Airport South Industrial Project is located on the south side of I-5 at the Metro Air Parkway interchange. The project would extend Metro Air Parkway to the newly constructed Airport South Industrial and eliminate the existing Bayou Way between Power Line Road and the east side of the project site. The project is currently located within unincorporated Sacramento County and proposes to annex into the City of Sacramento. The site is currently zoned as AG-20 and AG-80 agriculture land. **Figure 2** shows the proposed site plan.

ANALYSIS SCENARIOS

Due to the size of this project and the need for both rezoning and annexation into the City, several analysis scenarios are included and documented in this report. These scenarios are summarized in **Table 1**.

TABLE 1: PROJECT ANALYSIS SCENARIOS

SCENARIO	DESCRIPTION
Existing	Represents average traffic conditions as of approximately May 2022. This scenario is used to establish a baseline for comparison
Baseline	Represents average traffic conditions at the year of construction. This includes reasonably foreseeable developments in the short term near the project site including developments in Metro Air Park and Northlake (~2025)
Baseline with Project	Layers the project on top of the Baseline analysis
Cumulative	Includes all planned developments for the forecasting year of 2040. This effort was coordinated with the City of Sacramento’s Draft 2040 General Plan for consistency and is consistent with the regional MTP/SCS
Cumulative with Project	Layers the project on top of the Cumulative analysis

ENVIRONMENTAL SETTING

The roadway, transit, bicycle, and pedestrian transportation systems within the study area are described below.

ROADWAY SYSTEM

The Mobility Element of the Sacramento 2035 General Plan identifies the following roadway system functional classifications.

Major Arterial: A four- to six-lane street that serves longer distance trips and serves as the primary route for moving traffic through the city, connecting urban centers, residential neighborhoods, and commercial centers to one another, or to the regional transportation network. Movement of people and goods (also known as *mobility*), rather than access to adjacent land uses, is the primary function of an arterial street. These streets carry moderate to heavy vehicular movement, low to high pedestrian and bicycle movements, and moderate to high transit movement. Typical major arterials have right-of-way widths of 80–150 feet. Arterials configured as boulevards have right-of-way widths of 90–180 feet.

Minor Arterial: A two-lane street that serves longer-distance trips and provides access to the regional transportation system. These streets carry low to moderate vehicular movement, low to high pedestrian and bicycle movements, and moderate to high transit movement. These roadways typically have high levels of access control. Typical minor arterial streets have right-of-way widths of 50–90 feet.

Major Collector: A two- to four-lane street that primarily provides travel between arterial streets and collector or local streets and secondarily provides access to abutting properties. These streets carry low to moderate vehicular movement, low to heavy pedestrian movements, moderate to heavy bicycle movement, and low to moderate transit movement. These roadways have medians and moderate access control. Typical major collector streets have right-of-way widths of 60–120 feet.

Minor Collector: A two-lane street that connects residential uses to the major street system. These roadways are undivided and have lower levels of access control to abutting properties than arterials or major collectors. Typical minor collector streets have right-of-way widths of 40–80 feet.

Local: A two-lane street that provides direct access to abutting land uses. Local streets serve the interior of a neighborhood. These streets carry low vehicular movement, low to heavy pedestrian movement, and low to moderate bicycle movement. Typical local streets have right-of-way widths of 40–60 feet.

The roadway system near the proposed project is described below.

Interstate 5 - I-5 is a north-south freeway facility serving local and interregional traffic within the Sacramento region. I-5 primarily links South Sacramento, the Central Business District in Downtown Sacramento, Natomas, and the Sacramento International Airport. This freeway is also used as a

primary route by long-distance traffic, including truck traffic. I-5 is generally about two to four lanes in each direction in the project vicinity.

Power Line Road is a north-south minor collector, perpendicular to I-5, located along the west side of the project site. To the north, the roadway intersects with Bayou Way and passes over I-5. To the south, Power Line Rd intersects with Del Paso Road and ends at Garden Highway. Power Line Road has one lane in each direction with narrow, unpaved shoulders.

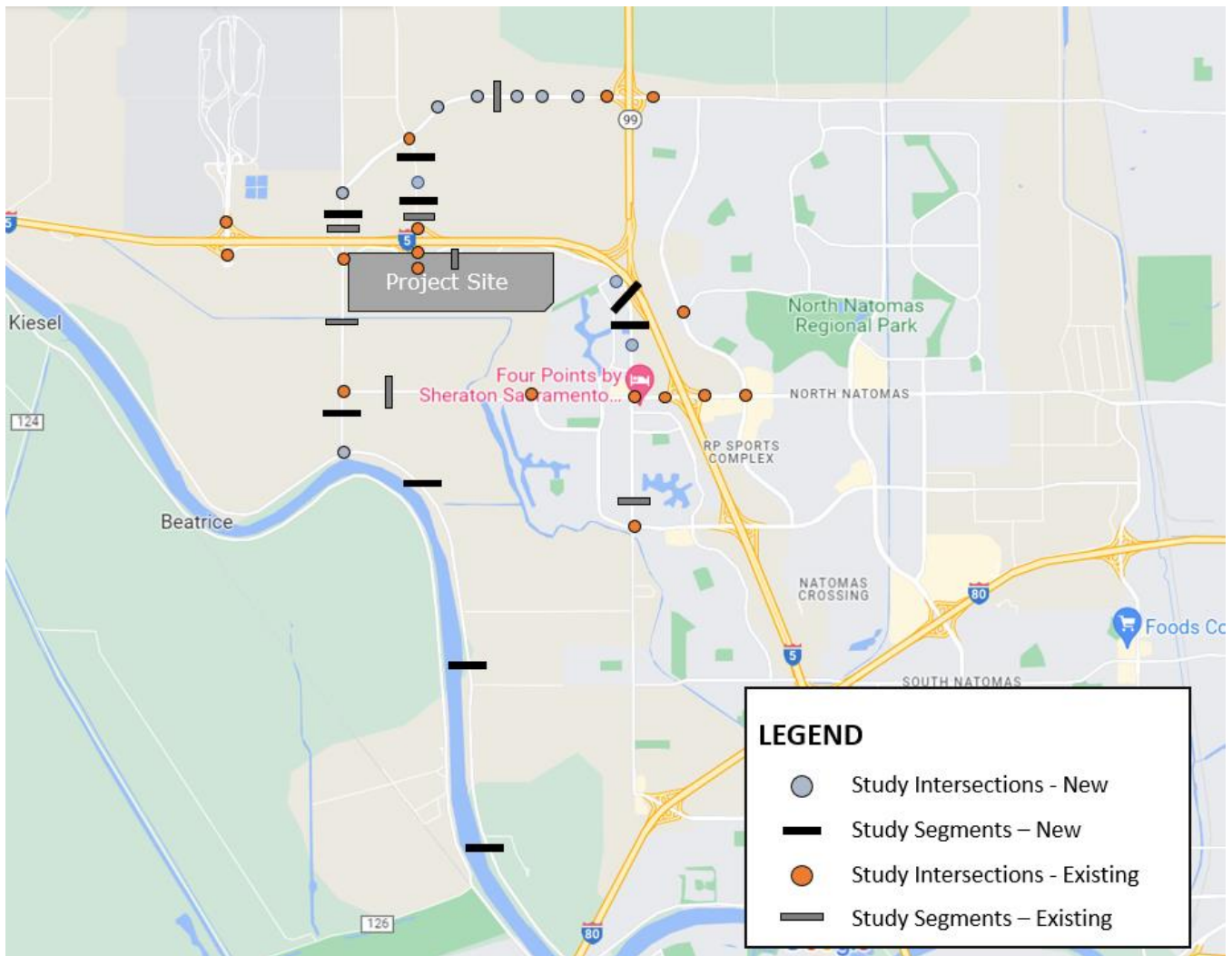
Bayou Way is an east-west local road located on the north side of the project site. To the west, the roadway intersects with Power Line Road. To the east, Bayou Way intersects with Metro Air Parkway and continues to the Westlake neighborhood, where it becomes El Centro Road. This roadway has one lane in each direction. East of the project site, Bayou Road is separated by a painted median and has painted bike lanes in both directions.

Del Paso Road is an east-west minor arterial located approximately ½ mile south of the project site. To the west, the roadway intersects with Power Line Road. To the east, Del Paso Road intersects Hovnanian Drive and bisects the suburban Westlake and Sundance Lake neighborhoods. To the east, the roadway has ramps connected to I-5. The segment of the roadway directly to the south of the project site has one lane in each direction. To the east, the roadway expands to two lanes in each direction with additional left turn lanes and a raised median.

El Centro Road is a north-south arterial located approximately ½ mile east of the project site. To the north, the roadway becomes Bayou Way. To the south, the roadway intersects with Del Paso Road and runs alongside the suburban neighborhoods of Westlake and Sundance Lake. North of Del Paso Road, this roadway has two southbound lanes, one northbound lane, and a raised median with left turn lanes. To the South of Del Paso Road, this roadway has two lanes in each direction with a raised median.

Metro Air Parkway is a north-south arterial perpendicular to I-5 that bisects the project site. Metro Air Parkway intersects Bayou Way to the south, passes over I-5, and continues north to intersect with West Elkhorn Boulevard. Within the Study Area, Metro Air Parkway currently has one lane per direction and is being widened to have two lanes in each direction. By 2040, this roadway will be constructed to three lanes per direction. It is considered a thoroughfare within County jurisdiction.

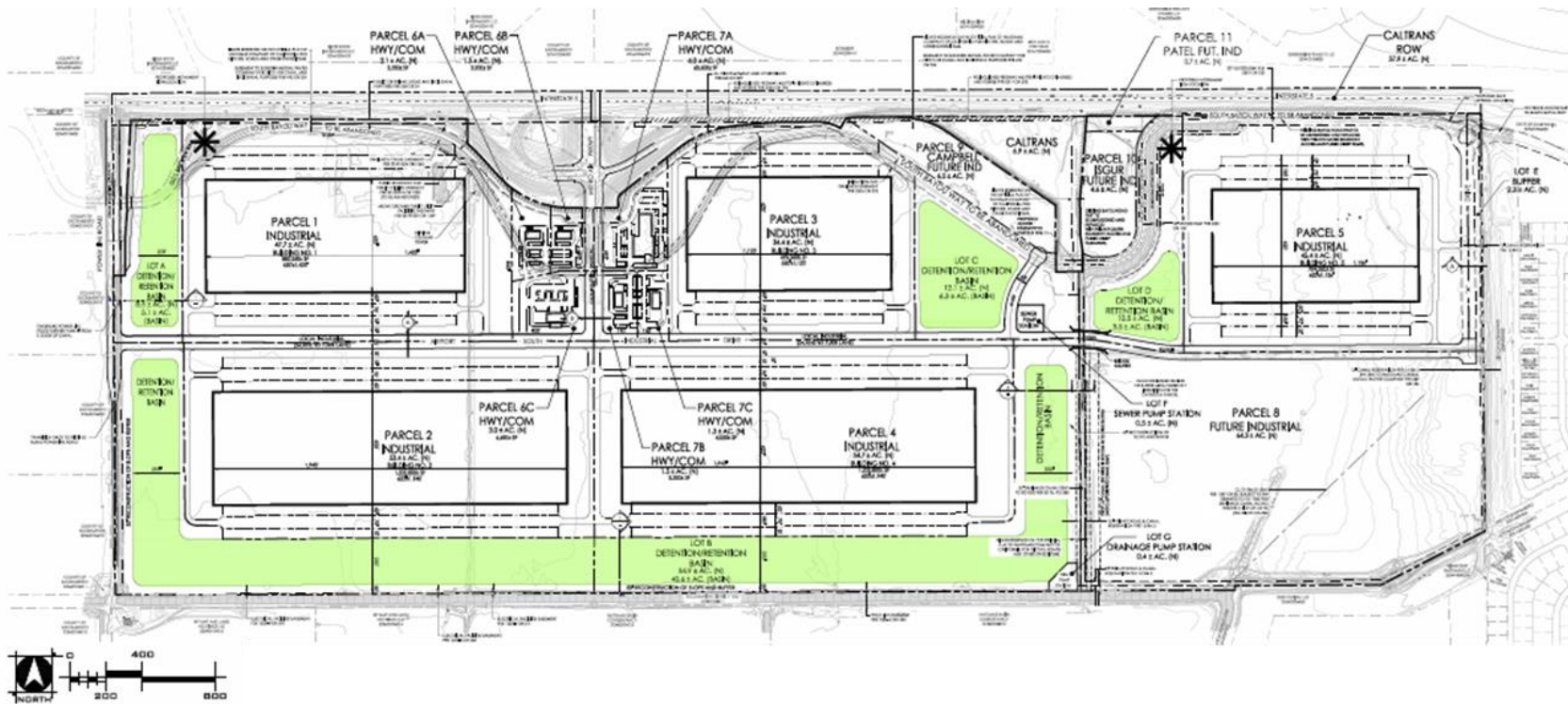
Elkhorn Boulevard is an east-west arterial located north of the project site. To the east, Elkhorn Boulevard connects with SR-99. To the west, Elkhorn Boulevard connects with Power Line Road. This roadway is currently one lane per direction except in front of Northlake, where it is three lanes eastbound and two lanes westbound. By 2030, this roadway will be constructed as a six-lane thoroughfare.



-Existing facilities include those which counts from prior studies were used.

-New intersections are those for which new counts were collected for this study or which did not yet exist on the ground at the time the study was initiated.

FIGURE 1. STUDY AREA



Source: Wood Rodgers, June 20, 2022.

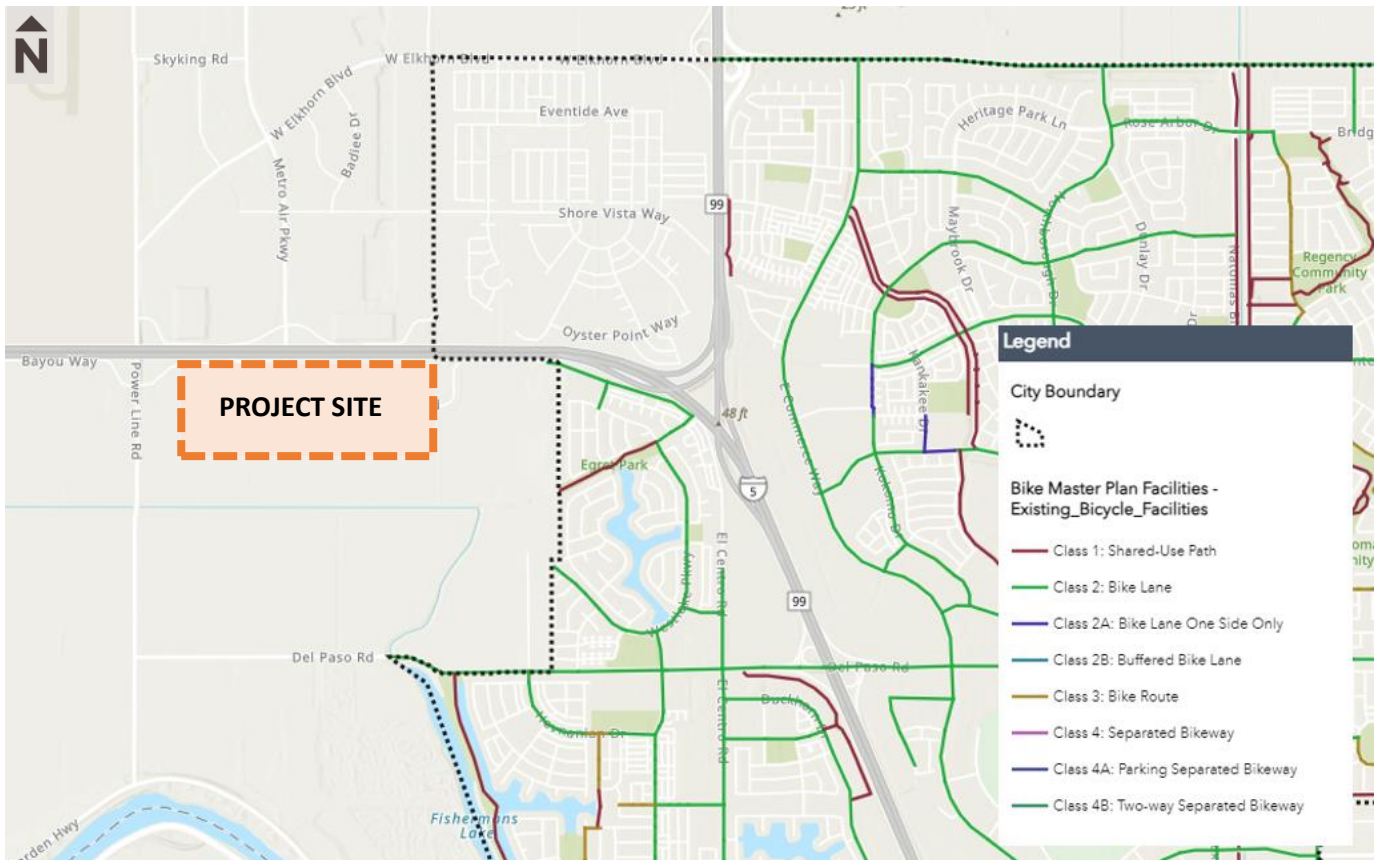
FIGURE 2. PROJECT SITE PLAN

EXISTING PEDESTRIAN SYSTEM

The pedestrian system in the vicinity of the project site consists of sidewalks along Del Paso Road and El Centro Road when they pass through the Sundance Lake and Westlake Neighborhoods. There are currently no pedestrian facilities immediately adjacent to the project site as the location is currently undeveloped.

EXISTING BICYCLE SYSTEM

The bicycle system in the vicinity of the project site consists of infrastructure around the Westlake and Sundance Lake Neighborhoods. The bicycle system consists of a Class I bike path and Class II bike lanes to the south and east of the project site. **Figure 3** illustrates the existing bicycle system. The existing bicycle system ends at the Sacramento City limit.



Source: City of Sacramento Bikeway User Map, 2020

FIGURE 3. BIKEWAYS

TRANSIT SYSTEM

The area in the project vicinity is served by local SacRT bus service (Routes 13 and 142) as well as North Natomas Jibe (Lines 171 and 174), as illustrated in **Figure 4**. Bus Route 13 operates along Del Paso Road, south of the project site. Bus Route 142, which is a peak-only line, also operates along I-5, and stops north of the project site. North Natomas Jibe line 171 (a part-time service) passes along the project site on Callison Drive. North Natomas Jibe line 174 (a part-time service) also operates on Del Paso Road southeast of the project site without any stops in the vicinity of the site. Jibe routes have traditionally been oriented to peak period travel from Natomas to Downtown during the morning peak, and from Downtown to Natomas during the afternoon peak. It should be noted that, due to continued low ridership due to the pandemic, Jibe has suspended all services indefinitely.



Source: Sacramento Regional Transit Bus & Light Rail System Map

FIGURE 4. REGIONAL TRANSIT MAP

STUDY AREA

The following intersections are included in the study area and shown in **Figure 5**:

1. Airport Blvd and I-5 northbound ramps
2. Airport Blvd and I-5 southbound ramps
3. Metro Air Parkway and I-5 northbound ramps
4. Metro Air Parkway and I-5 southbound ramps
5. Garden Highway and Power Line Road
6. Del Paso Road and Power Line Road
7. Del Paso Road and El Centro Road
8. Del Paso Road and Hovnanian Drive
9. Del Paso Road and I-5 northbound ramps
10. Del Paso Road and I-5 southbound ramps
11. Del Paso Road and East Commerce Way
12. West Elkhorn Boulevard and Metro Air Parkway
13. West Elkhorn Boulevard and SR 99 northbound ramps
14. West Elkhorn Boulevard and SR 99 southbound ramps
15. West Elkhorn Boulevard and East Commerce Way
16. North Park Drive and East Commerce Way
17. Arena Boulevard and El Centro Road
18. Bayou Road South and Power Line Road
19. Bayou Road South and Metro Air Parkway
20. Power Line Road and West Elkhorn Boulevard
21. Metro Air Parkway and Pacific Gateway Drive
22. Metro Air Parkway and Meister Way
23. West Elkhorn Boulevard and Badiee Drive
24. West Elkhorn Boulevard and Ameri Drive
25. West Elkhorn Boulevard and Lone Tree Road
26. West Elkhorn Boulevard and Lakestone Drive
27. West Elkhorn Boulevard and Wave Street
28. West Elkhorn Boulevard and Waterside Avenue
29. Bayou Way and Callison Drive
30. El Centro Road and Hawkview Drive
31. Airport South Industrial Drive and Power Line Road
32. Airport South Industrial Drive and Metro Air Parkway
33. Highway commercial access and Metro Air Parkway

The following segments are also included in the study area:

1. Metro Air Parkway - I-5 to Pacific Gateway Drive
2. Metro Air Parkway - Pacific Gateway Drive to Meister Way
3. Metro Air Parkway - Meister Way to Elkhorn Boulevard
4. West Elkhorn Boulevard - Lone Tree Road to Baidee Drive
5. Power Line Road - Garden Highway to Del Paso Road
6. Power Line Road - Bayou Road to Del Paso Road
7. Power Line Road - Bayou Road to Pacific Gateway Drive
8. Power Line Road - West Elkhorn Boulevard to Pacific Gateway Drive
9. Del Paso Road - Power Line Road to Hovnanian Drive
10. El Centro Road - Del Paso Road to Hawkview Drive

11. El Centro Road - Hawkview Drive to Bayou Way
12. Garden Highway - Power Line Road to Radio Road
13. Garden Highway - Radio Road to San Juan Road
14. Garden Highway - San Juan Road to city limit
15. Metro Air Parkway - I-5 to Airport South Industrial Drive
16. Airport South Industrial Drive - Power Line Road to Metro Air Parkway
17. Airport South Industrial Drive - Metro Air Parkway to "A" Drive
18. "A" Drive - Airport South Industrial Drive to Bayou Way
19. Bayou way - "A" Drive to El Centro Road

EXISTING INTERSECTION GEOMETRY

Existing intersection geometry (number of approach lanes and traffic control) is illustrated in **Figure 6**.

DATA COLLECTION

Project data was compiled from a combination of existing counts from recent prior projects as well as new data collected in September 2022. Count sheets are provided in **Appendix A**.

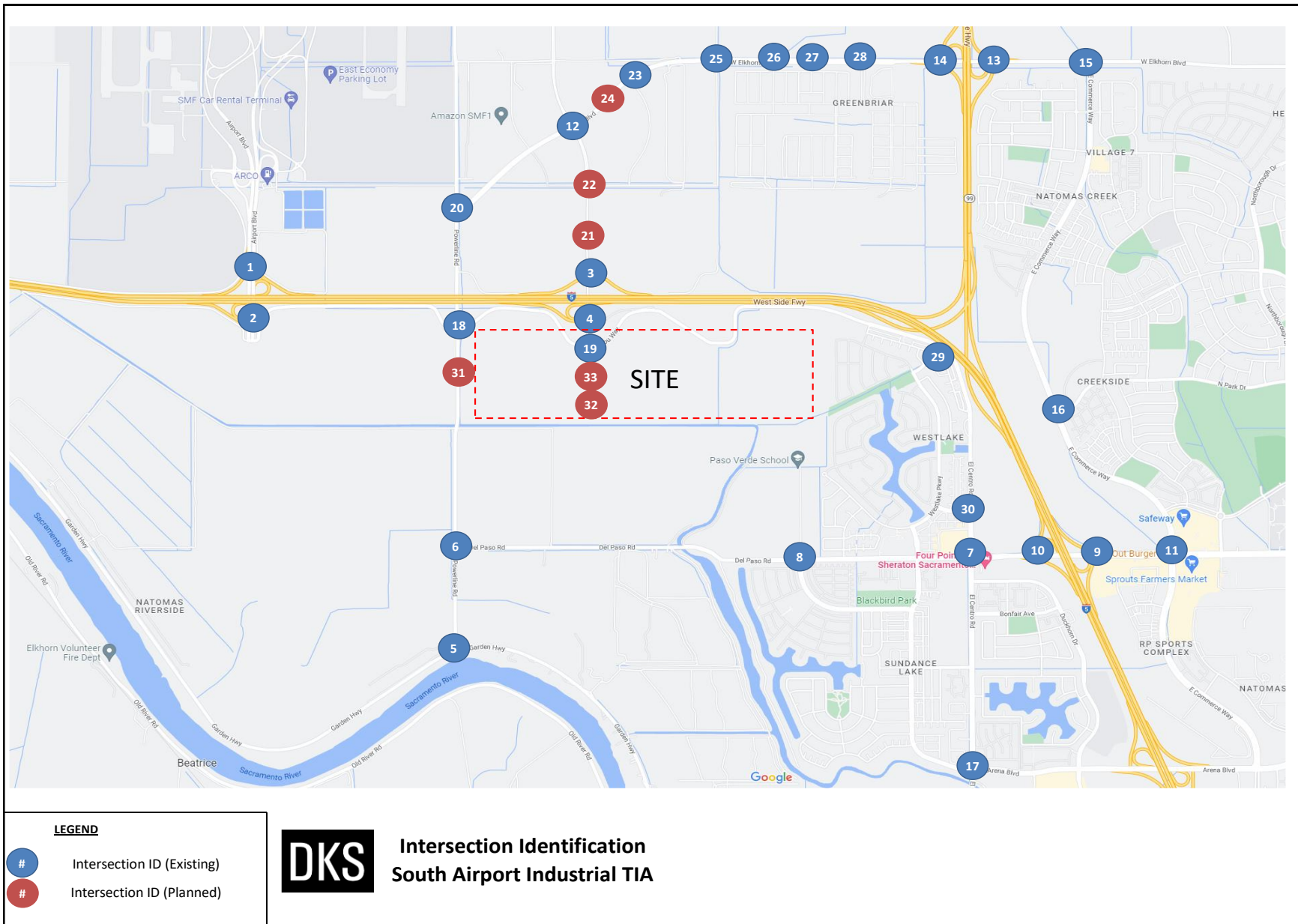


FIGURE 5. INTERSECTION IDENTIFICATION

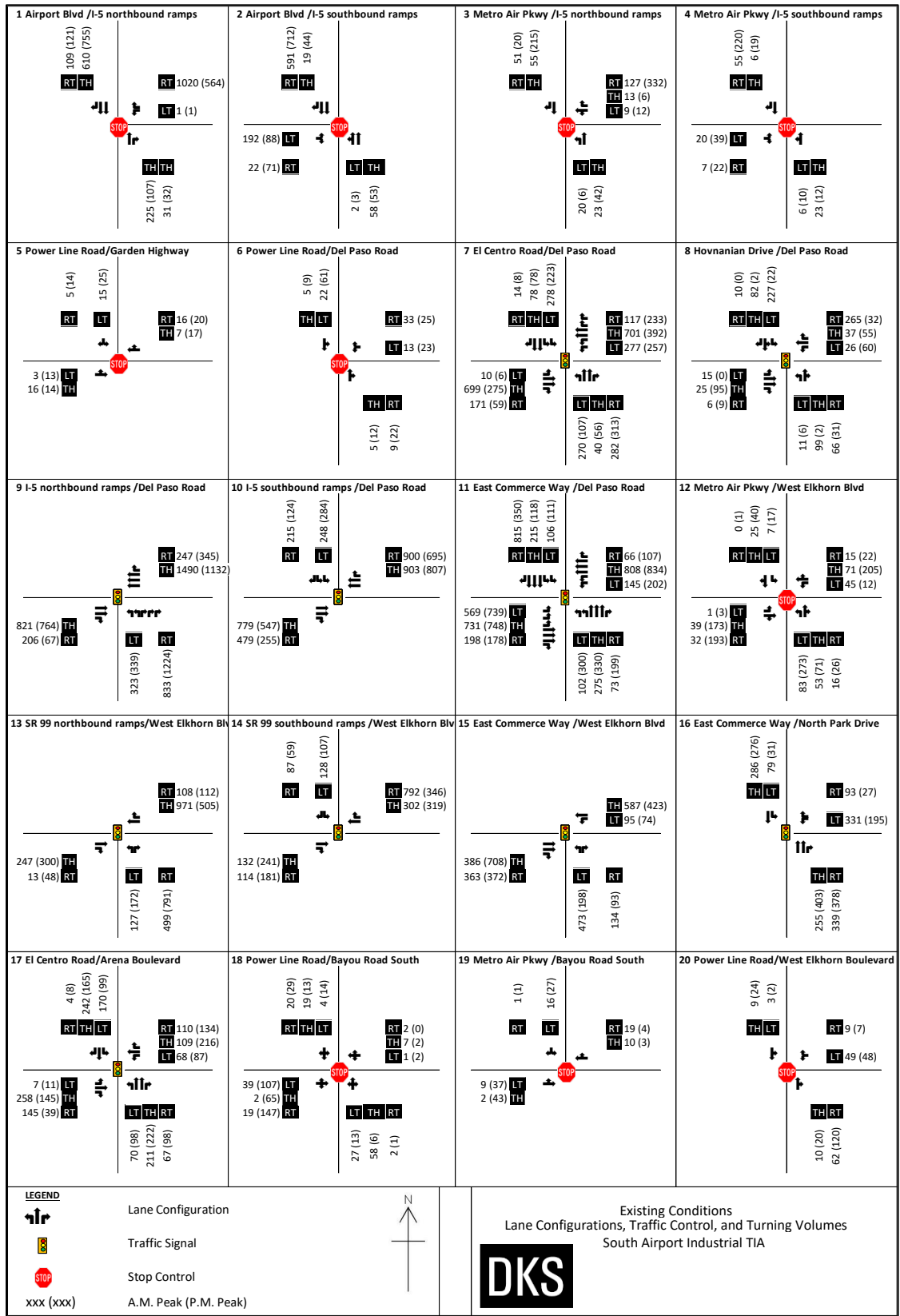


FIGURE 6. EXISTING LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

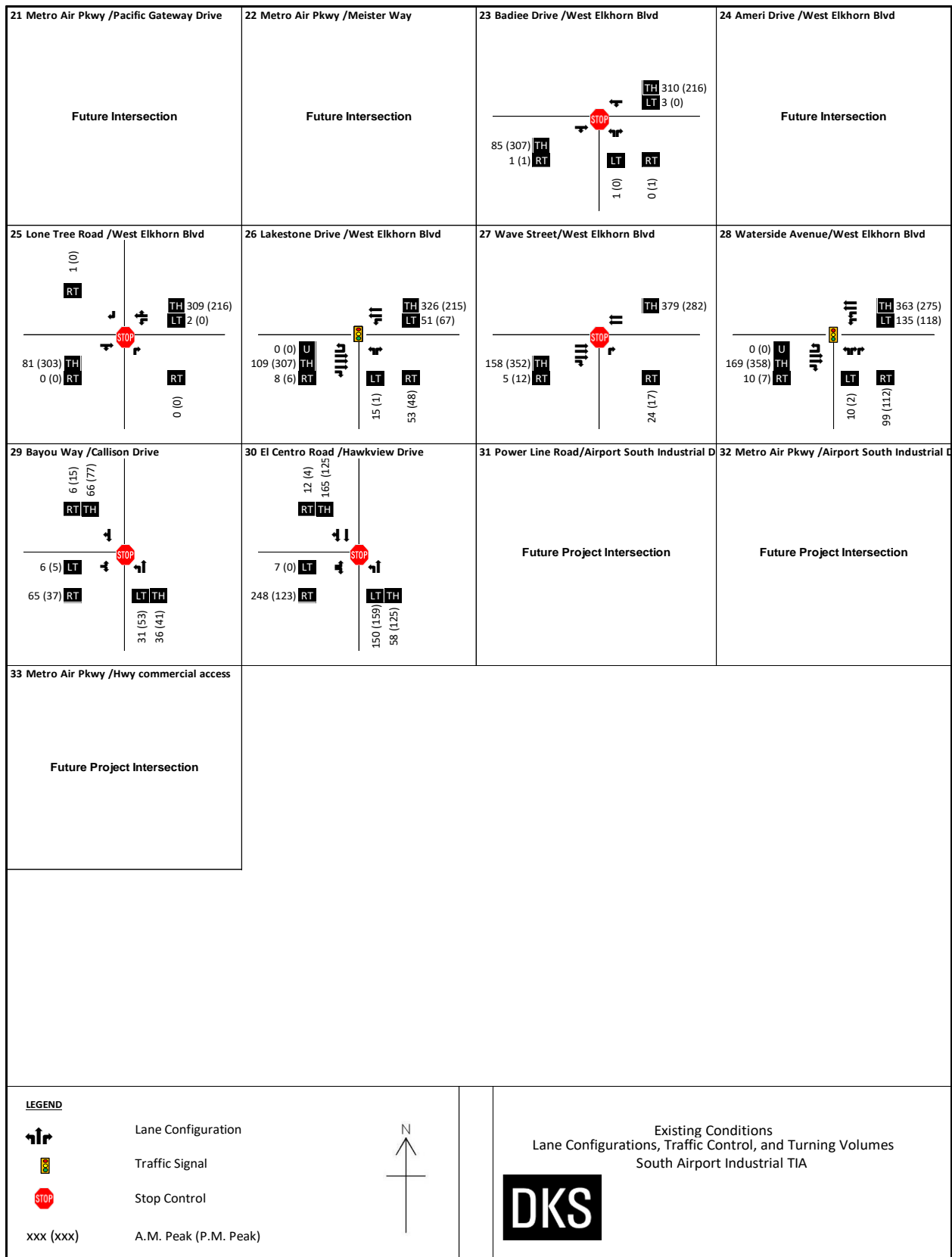


FIGURE 6. EXISTING LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

REGULATORY SETTING

CITY OF SACRAMENTO TRAFFIC IMPACT GUIDELINES (2022)

The following deficiency thresholds shall be used to determine if the project results in a deficiency to City facilities and requires improvements:

Intersections

A project is considered to result in a deficiency if it would:

- Result in increasing the length of an existing queue beyond the available storage at any intersection's right- or left-turn storage pocket by more than one vehicle length (25-feet).
- Result in increasing the length of an existing queue already exceeding the available storage at any intersection's right- or left-turn storage pocket by more than one vehicle length (25-feet).
- Result in an unsignalized intersection that is not warranted for a signal without the addition of a project being warranted for a signal with the addition of the project. Whether a signal is warranted is based on the signal warrant analysis described in Section 5.1.2. The warrant analysis should be based on CA MUTCD signal warrants and will most commonly include the peak-hour, four-hour, or eight-hour signal warrants. Peak hour and four-hour warrant volumes should be plotted on CA MUTCD Figure 4C-1 or Figure 4C-3 as appropriate. Signal warrant worksheets and CA MUTCD figures should be included as an appendix.

Bicycle and Pedestrian Facilities

A project is considered to result in a deficiency if it would:

- Adversely affect an existing bikeway or pedestrian facility
- Interfere with the implementation of a planned bikeway as shown in the Bicycle Master Plan, or be in conflict with the Pedestrian Master Plan
- Fail to provide adequate access for bicyclists and pedestrians.

Transit

A project is considered to result in a deficiency if it would:

- Adversely affect existing transit operations; or
- Interfere with the implementation of transit service as planned in the Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS); or
- Substantially increase transit demand and fail to provide adequate transit service.

SACRAMENTO 2035 GENERAL PLAN

The Mobility Element of the Sacramento 2035 General Plan outlines goals and policies that coordinate the transportation and circulation system with planned land uses. The following level of service policy has been used in this study, as amended on January 23, 2018:

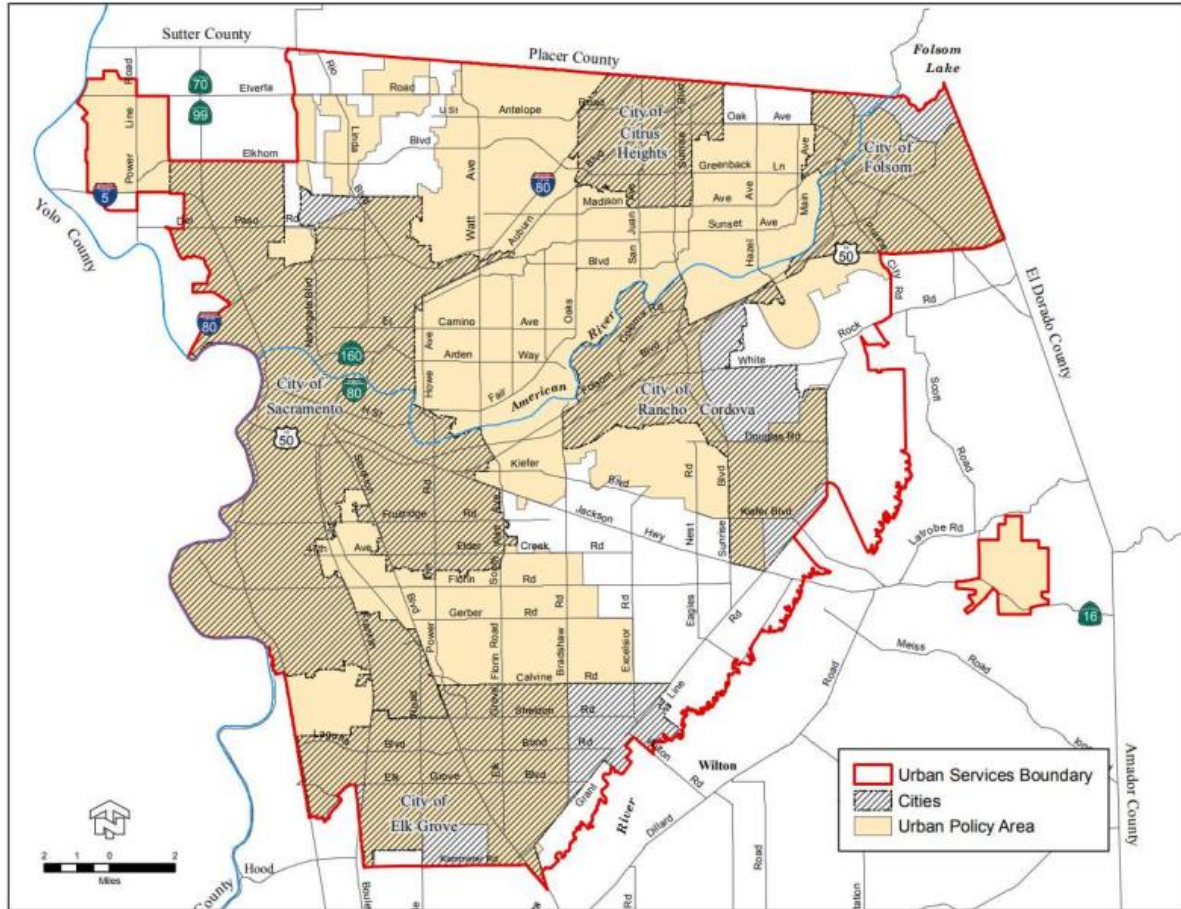
Policy M 1.2.2 Level of Service (LOS) Standard. The City shall implement a flexible context-sensitive Level of Service (LOS) standard and will measure traffic operations against the vehicle LOS thresholds established in this policy. The City will measure Vehicle LOS based on the methodology contained in the latest version of the Highway Capacity Manual (HCM) published by the Transportation Research Board. The City's specific vehicle LOS thresholds have been defined

based on community values with respect to modal priorities, land use context, economic development, and environmental resources and constraints. As such, the City has established variable LOS thresholds appropriate for the unique characteristics of the City's diverse neighborhoods and communities. The City will strive to operate the roadway network at LOS D or better for vehicles during typical weekday conditions, including AM and PM peak hour with the following exceptions...

SACRAMENTO COUNTY

Sacramento County's Transportation Analysis Guidelines document, last updated September 10, 2020, outlines the methodologies for conducting transportation studies related to planned developed. The following policies are in place regarding what constitutes an acceptable LOS:

- A. County of Sacramento - The County defines the minimum acceptable operation level for its roadways and intersections to be LOS D for rural areas and LOS E for urban areas. The urban areas are those areas that are dominated with urban type land uses and transportation infrastructure and are located within the Urban Service Boundary (USB), as shown in the Land Use Element of the Sacramento County General Plan and **Figure 7**. The rural areas are those areas that are either outside the Urban Service Boundary or are dominated with rural type land uses and transportation infrastructure and are located within the USB.
- B. Caltrans – In District 3, ramp terminal intersections are typically analyzed using the LOS standard of the surrounding city or unincorporated county jurisdiction. For mainline analysis, Caltrans publishes a concept LOS in the facility's transportation concept report (TCR). The LOS policy to be used in the LTA should be confirmed with the Department of Transportation and Caltrans.
- C. Other City/County Jurisdictions – The LOS policy used in the LTA should be confirmed with the applicable jurisdiction.
- D. Connector JPA – The JPA Guidelines require signalized intersections to operate at LOS C or better (except at Connector Special Segments where LOS D is considered acceptable). Special Segments are currently defined from Bond Road to Calvine Road in the Sheldon community.



Source: Sacramento County Transportation Analysis Guidelines

FIGURE 7. URBAN SERVICES BOUNDARY MAP (AS OF JANUARY 1, 2020)

LEVEL OF SERVICE AND QUEUE LENGTH ANALYSIS AND METHODOLOGY

The operation or performance of roadway facilities is commonly described in terms of LOS. LOS is a qualitative measure of effectiveness describing traffic operations based on such factors as speed, travel time, delay, and freedom to change lanes for all vehicles. Six levels are defined from LOS A, as the best-operating conditions, to LOS F, or the worst operating conditions. LOS E represents “at-capacity” operations. Study intersections were analyzed to determine their LOS based on the definitions presented in the Highway Capacity Manual 6th Edition (HCM 6) with average delay taken from the traffic simulation outputs. **Table 2** presents the LOS criteria for intersections in accordance with the HCM 6 methodology. In accordance with City of Sacramento policy, at unsignalized intersection, the intersection LOS is used to determine conformity. Based upon the City’s level of service policy, LOS F was utilized as the appropriate criteria in all study analyses.

Queue length analysis was performed in SimTraffic 11. SimTraffic reports 95th percentile queue length in feet, which can be compared against the available storage length for the existing intersections or be used as a basis to determine the required storage length for the planned intersections as well as the spacing between the intersections. The turn storage lengths are measured for all existing intersection turn lanes from Google Earth.

TABLE 2. INTERSECTION LEVEL OF SERVICE

LEVEL OF SERVICE (LOS)	TOTAL DELAY PER VEHICLE (SECONDS)	
	SIGNALIZED	UNSIGNALIZED
A	< 10	< 10
B	> 10 and < 20	> 10 and < 15
C	> 20 and < 35	> 15 and < 25
D	> 35 and < 55	> 25 and < 35
E	> 55 and < 80	> 35 and < 50
F	> 80	> 50

Source: Highway Capacity Manual 6th Edition, Transportation Research Board.

LOS analyses were conducted for the roadway segment in the study area based upon daily traffic volumes, number of traffic lanes between intersections, and roadway characteristics. The capacity class categories are based upon the nature of traffic flow along the facility, including number of interruptions due to intersection control and “side-friction” due to driveways and local streets. For each capacity class, relationships were developed between daily traffic volumes and roadway level of service. **Table 3** summarizes the maximum daily traffic volumes associated with each level of service designation and capacity class combination. Although the segment-based level of service calculations is based upon daily traffic volumes, the resultant levels of service are representative of peak hour conditions.

TABLE 3. LEVEL OF SERVICE THRESHOLD FOR ROADWAY SEGMENT

LEVEL OF SERVICE THRESHOLD FOR ROADWAY SEGMENTS						
OPERATIONAL CLASS	NUMBER OF LANES	ADT LEVEL-OF-SERVICE CAPACITY THRESHOLD				
		A	B	C	D	E
Arterial - Low Access Control	2	9,000	10,500	12,000	13,500	15,000
	4	18,000	21,000	24,000	27,000	30,000
	6	27,000	31,500	36,000	40,500	45,000
Arterial - Moderate Access Control	2	10,800	12,600	14,400	16,200	18,000
	4	21,600	25,200	28,800	32,400	36,000
	6	32,400	37,800	43,200	48,600	54,000
Arterial - High Access Control	2	12,000	14,000	16,000	18,000	20,000
	4	24,000	28,000	32,000	36,000	40,000
	6	36,000	43,000	48,000	54,000	60,000
Collector Street - Minor	2	5,250	6,125	7,000	7,875	8,750
Collector Street - Major	2	8,400	9,800	11,200	12,600	14,000
	4	16,800	19,600	22,400	25,200	28,000
Local Street	2	3,000	3,500	4,000	4,500	5,000
Freeway	2	14,000	21,600	30,800	37,200	40,000
	4	28,000	43,200	61,600	74,400	80,000
	6	42,000	64,800	92,400	111,600	120,000
	8	56,000	86,400	123,200	148,800	160,000
	10	56,000	86,400	123,200	148,800	160,000
Facility Type	Stops / Mile		Driveways		Speed	
Arterial - Low Access Control	4 +		Frequent		25 – 35 mph	
Arterial - Moderate Access Control	2 – 4		Limited		35 – 45 mph	
Arterial - High Access Control	1 - 2		None		45 – 55 mph	

Source: Sacramento 2035 General Plan MEIR.

EXISTING TRAFFIC CONDITIONS

This section summarizes the analysis of current traffic conditions as of approximately May 2022. This section serves to establish current traffic conditions to provide context to the analysis provided in later sections of this document.

INTERSECTION OPERATIONS ANALYSIS

The queuing and operations of the roadway infrastructure were analyzed under existing conditions. A summary of the operational analysis is presented in **Table 4**, while the 95th percentile queues as compared with existing storage for key locations are presented in **Table 5**. **Appendix C** includes the analysis details and LOS worksheets.

Under Existing Conditions, there are no identified operational deficiencies or queuing issues identified.

TABLE 4. EXISTING INTERSECTION OPERATIONS ANALYSIS

EXISTING INTERSECTION OPERATING CONDITIONS					
INTERSECTION	CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (SECONDS)	LOS	DELAY (SECONDS)	LOS
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	TWSC	1.3 [2.7 - WBL]	A [A]	0.7 [1.2 - WBR]	A [A]
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	TWSC	3.3 [4.5 - EBL]	A [A]	2.3 [4.2 - EBL]	A [A]
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	TWSC	2.3 [7 - WBT]	A [A]	3.5 [8.6 - WBT]	A [A]
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	TWSC	1 [3.8 - EBL]	A [A]	1.1 [4 - EBL]	A [A]
5. GARDEN HIGHWAY AND POWER LINE ROAD	TWSC	0.6 [1.9 - SBL]	A [A]	1 [2.6 - SBL]	A [A]
6. DEL PASO ROAD AND POWER LINE ROAD	TWSC	1.1 [2.6 - WBL]	A [A]	0.8 [3.3 - WBL]	A [A]
7. DEL PASO ROAD AND EL CENTRO ROAD	Signal	24.4	C	16.2	B
8. DEL PASO ROAD AND HOVNANIAN DRIVE	Signal	13.7	B	5.4	A
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	Signal	11.8	B	13.5	B
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	Signal	7.0	A	6.6	A
11. DEL PASO ROAD AND EAST COMMERCE WAY	Signal	30.5	C	39.7	D
12. WEST ELKHORN BOULEVARD AND METRO AIR PARKWAY	AWSC	3.8	A	9.8	A
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	Signal	8.8	A	5.6	A
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	Signal	7.6	A	4.9	A
15. WEST ELKHORN BOULEVARD AND EAST COMMERCE WAY	Signal	17.3	B	9.5	A
16. NORTH PARK DRIVE AND EAST COMMERCE WAY	Signal	9.2	A	6.7	A
17. ARENA BOULEVARD AND EL CENTRO ROAD	Signal	18.0	B	14.7	B
18. BAYOU ROAD SOUTH AND POWER LINE ROAD	TWSC	1.9 [6.9 - EBT]	A [A]	5.4 [9.8 - EBT]	A [A]
19. BAYOU ROAD SOUTH AND METRO AIR PARKWAY	AWSC	3.8	A	4.9	A

EXISTING INTERSECTION OPERATING CONDITIONS					
INTERSECTION	CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (SECONDS)	LOS	DELAY (SECONDS)	LOS
20. POWER LINE ROAD AND WEST ELKHORN BOULEVARD	AWSC	1.8	A	1.6	A
23. WEST ELKHORN BOULEVARD AND BADIOE DRIVE	TWSC	0.9 [1.6 - EBT]	A [A]	1.1 [2.5 - NBR]	A [A]
25. WEST ELKHORN BOULEVARD AND LONE TREE ROAD	TWSC	0.6 [1.5 - SBR]	A [A]	0.2 [0.3 - EBT]	A [A]
26. WEST ELKHORN BOULEVARD AND LAKESTONE DRIVE	Signal	4.1	A	3.4	A
27. WEST ELKHORN BOULEVARD AND WAVE STREET	TWSC	1.8 [2.5 - NBR]	A [A]	1.5 [2.2 - NBR]	A [A]
28. WEST ELKHORN BOULEVARD AND WATERSIDE AVENUE	Signal	5.3	A	5.5	A
29. BAYOU WAY AND CALLISON DRIVE	AWSC	5.5	A	5.1	A
30. EL CENTRO ROAD AND HAWKVIEW DRIVE AIRPORT	TWSC	2.8 [8.2 - EBL]	A [A]	1.7 [3.7 - EBR]	A [A]

Key: [Worst stop-controlled delay] for TWSC intersections

Notes:

Black bolded results indicate an operational deficiency.

TABLE 5. EXISTING INTERSECTION QUEUE ANALYSIS

EXISTING INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	WBL	1,650	<10	<10
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,380	62	49
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	WBL/WBT	1,570	47	38
	WBR	160	75	89
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,640	32	37
7. EL CENTRO ROAD & DEL PASO ROAD	EBR	190	179	40
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	NBL	1,300	168	168
	NBR	1,300	138	252
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	SBL	1,140	104	114
	SBR	250	114	77
11. EAST COMMERCE WAY & DEL PASO ROAD	SBR	160	318	113
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	NBL	1,520	112	96
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	SBL	1,470	83	68
	SBR	415	65	50

Notes:

Black bolded results indicate an operational deficiency.

SEGMENT OPERATIONS ANALYSIS

As seen in **Table 6**, all segments currently operate with LOS A. These segment volumes are also shown on **Figure 8**.

TABLE 6: EXISTING SEGMENT RESULTS SUMMARY

ROADWAY	EXTENTS	JURISDICTION	EXISTING		
			Type/Lanes	Count	LOS
METRO AIR PARKWAY	I-5 to Pacific Gateway Drive	County	Arterial L 4	5,461	A
METRO AIR PARKWAY	Pacific Gateway Drive to Meister Way	County	Arterial L 4	7,858	A
METRO AIR PARKWAY	Meister Way to Elkhorn Boulevard	County	Arterial L 4	7,872	A
WEST ELKHORN BOULEVARD	Lone Tree Road to Baidee Drive	County	Arterial L 4	4,354	A
POWER LINE ROAD	Garden Highway to Del Paso Road	County	Arterial M 2	620	A
POWER LINE ROAD	Bayou Road to Del Paso Road	County	Arterial M 2	1,464	A
POWER LINE ROAD	Bayou Road to Pacific Gateway Drive	County	Arterial M 2	1,965	A
POWER LINE ROAD	West Elkhorn Boulevard to Pacific Gateway Drive	County	Arterial M 2	1,581	A
DEL PASO ROAD	Power Line Road to Hovnanian Drive	County	Arterial M 2	1,643	A
EL CENTRO ROAD	Del Paso Road to Hawkview Drive	City	Arterial L 2	5,956	A
EL CENTRO ROAD	Hawkview Drive to Bayou way	City	Arterial L 2	3,016	A
GARDEN HIGHWAY	Power Line Road to Radio Road	County	Arterial M 2	652	A
GARDEN HIGHWAY	Radio Road to San Juan Road	County	Arterial M 2	830	A
GARDEN HIGHWAY	San Juan Road to City Limit	County	Arterial M 2	631	A
METRO AIR PARKWAY	I-5 to Airport South Industrial Drive	City		-	
AIRPORT SOUTH INDUSTRIAL DRIVE	Power Line Road to Metro Air Parkway	City		-	

ROADWAY	EXTENTS	JURISDICTION	EXISTING		
			Type/Lanes	Count	LOS
AIRPORT SOUTH INDUSTRIAL DRIVE	METRO Air Parkway to "A" Drive	City		-	
"A" DRIVE	Airport South Industrial Drive to Bayou Way	City		-	
BAYOU WAY	A Drive to El Centro Road	City	Arterial L 2	2,564	A

PROJECT TRAVEL CHARACTERISTICS

TRIP GENERATION AND DISTRIBUTION

Regional trip generation and distribution for this project was performed using a combination of data from the SACOG SACSIM19 travel demand model and data from the ITE Trip Generation Manual 11th Edition. The Trip Generation and Distribution Memo from March 10th, 2023 covers the detailed calculations from this work and is attached in **Appendix B** for reference. **Table 7** summarizes the industrial and commercial trip generation. **Figure 9** and **Figure 10** illustrate the area-wide trip distribution for the industrial and highway commercial uses, respectively. For the industrial uses, separate distributions are shown for light vehicles and heavy vehicles. As part of the project description, heavy vehicle access will be prohibited via Bayou Way to the east of the project site. The traffic analyses assume that this prohibition will be in place.

Figure 11 and **Figure 12** illustrate the internal (on-site) trip distribution for the industrial and highway commercial uses, respectively.

TABLE 7: RECOMMENDED TRIP GENERATION (NET NEW TRIPS)

PROPOSED USE	DAILY	AM PEAK HOUR			PM PEAK HOUR		
		ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
INDUSTRIAL PARCELS	12,794	886	305	1,191	281	723	1,004
COMMERCIAL PARCELS (WEST PARCELS)	3,590	158	155	313	125	121	245
COMMERCIAL PARCELS (EAST PARCELS)	2,807	128	118	246	100	93	194
TOTAL	19,254	1,172	578	1,750	506	937	1,443

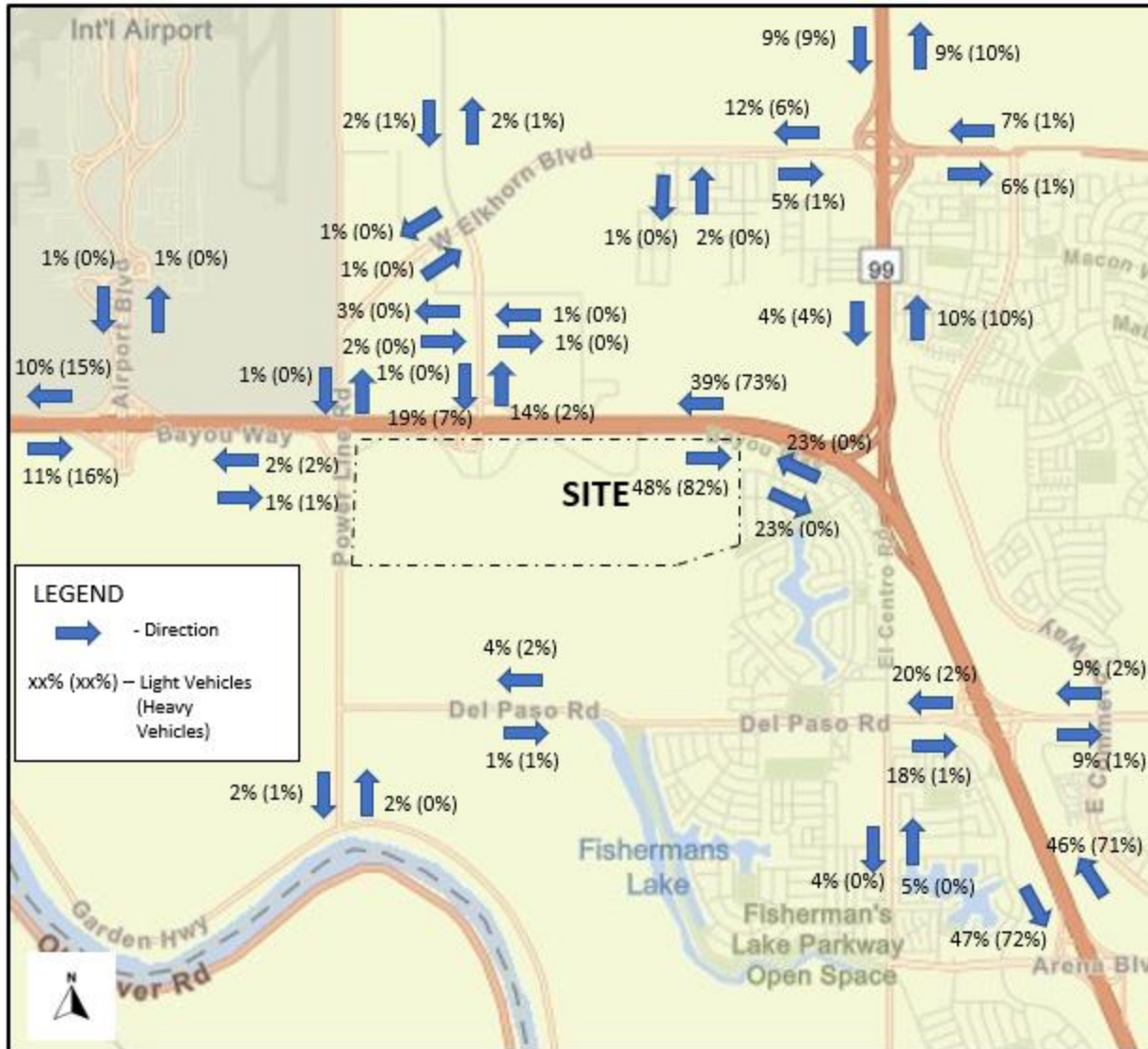


FIGURE 9: BASELINE WITH PROJECT TRIP DISTRIBUTION FOR INDUSTRIAL USES

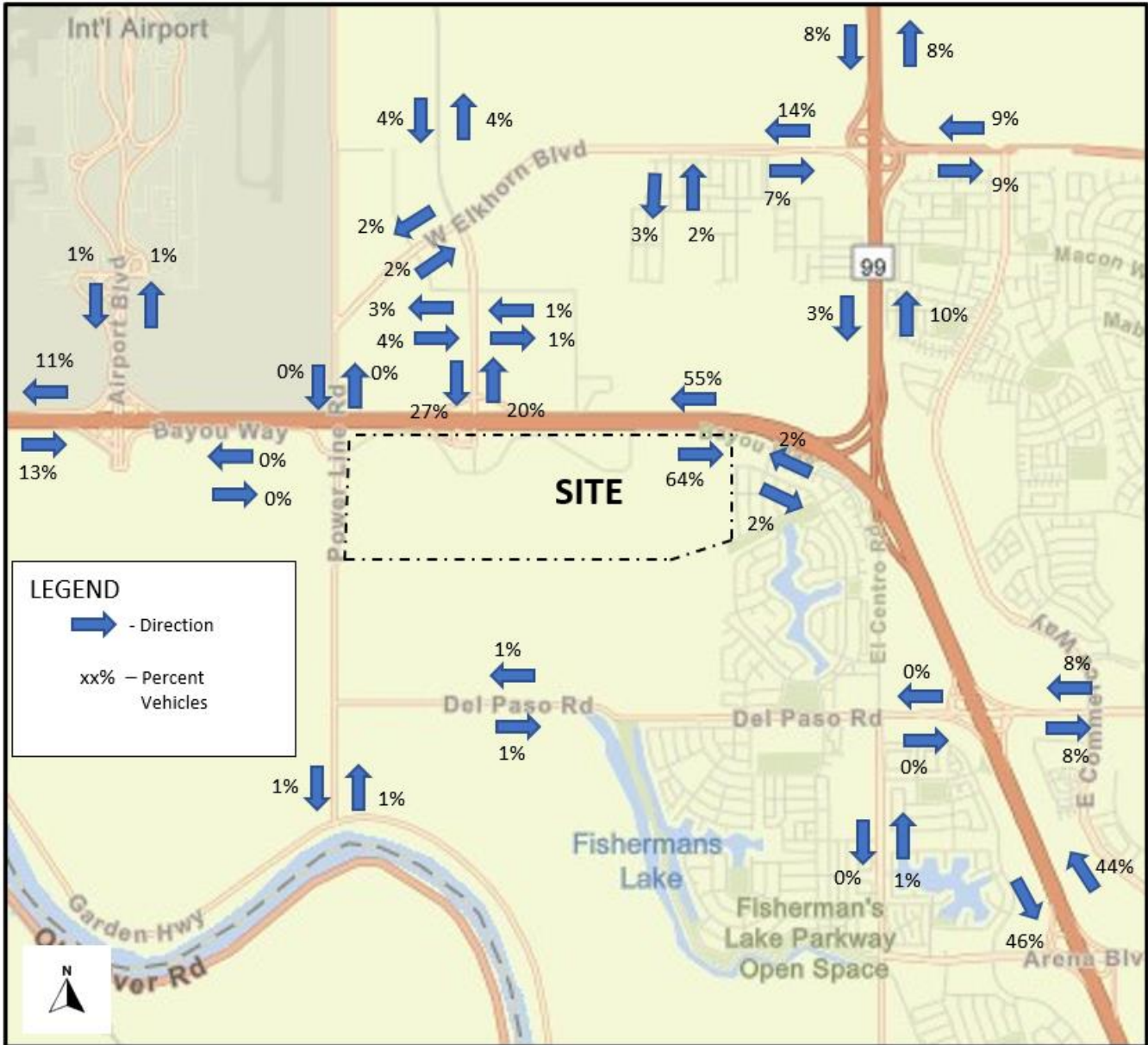


FIGURE 10: BASELINE WITH PROJECT TRIP DISTRIBUTION FOR HIGHWAY COMMERCIAL USES

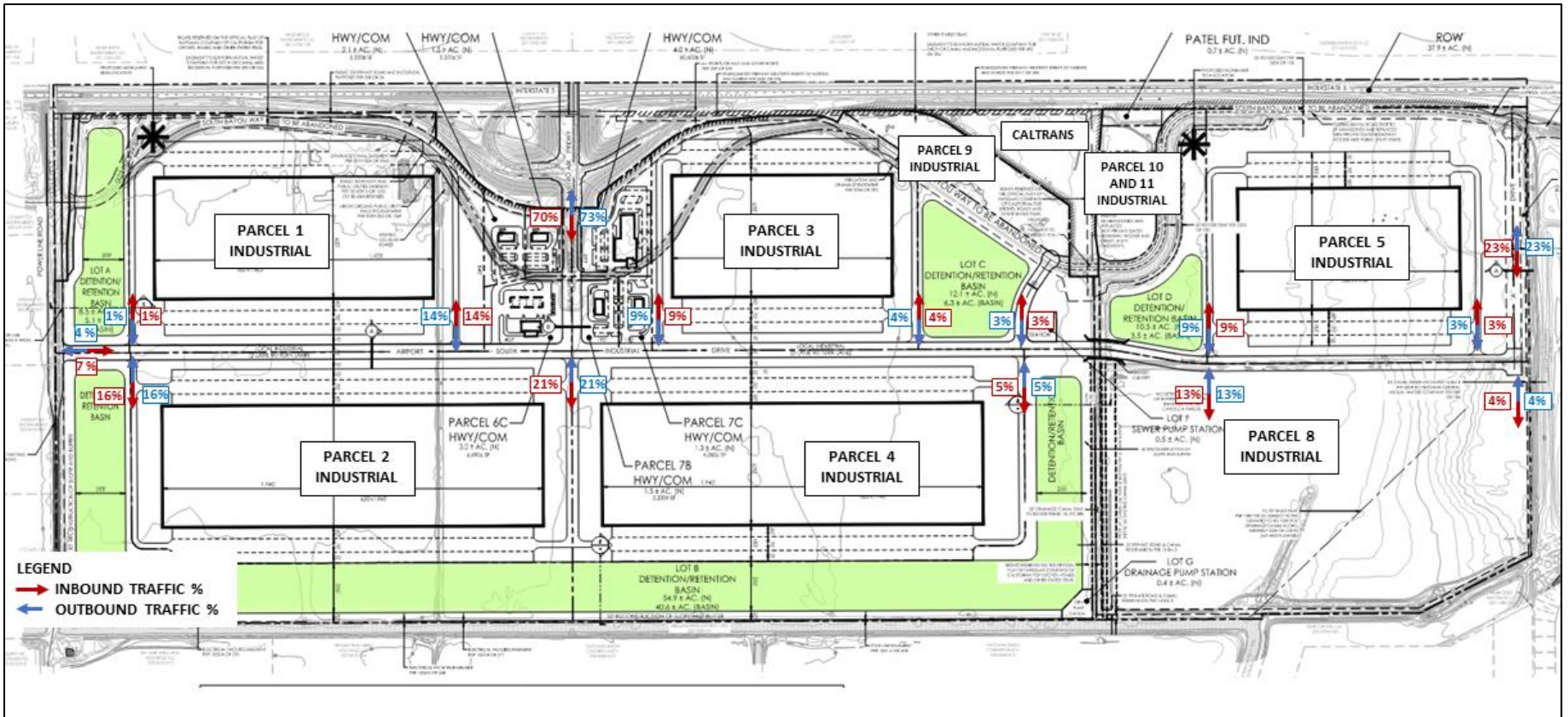


FIGURE 11: INTERNAL SITE DISTRIBUTION (INDUSTRIAL TRIPS)

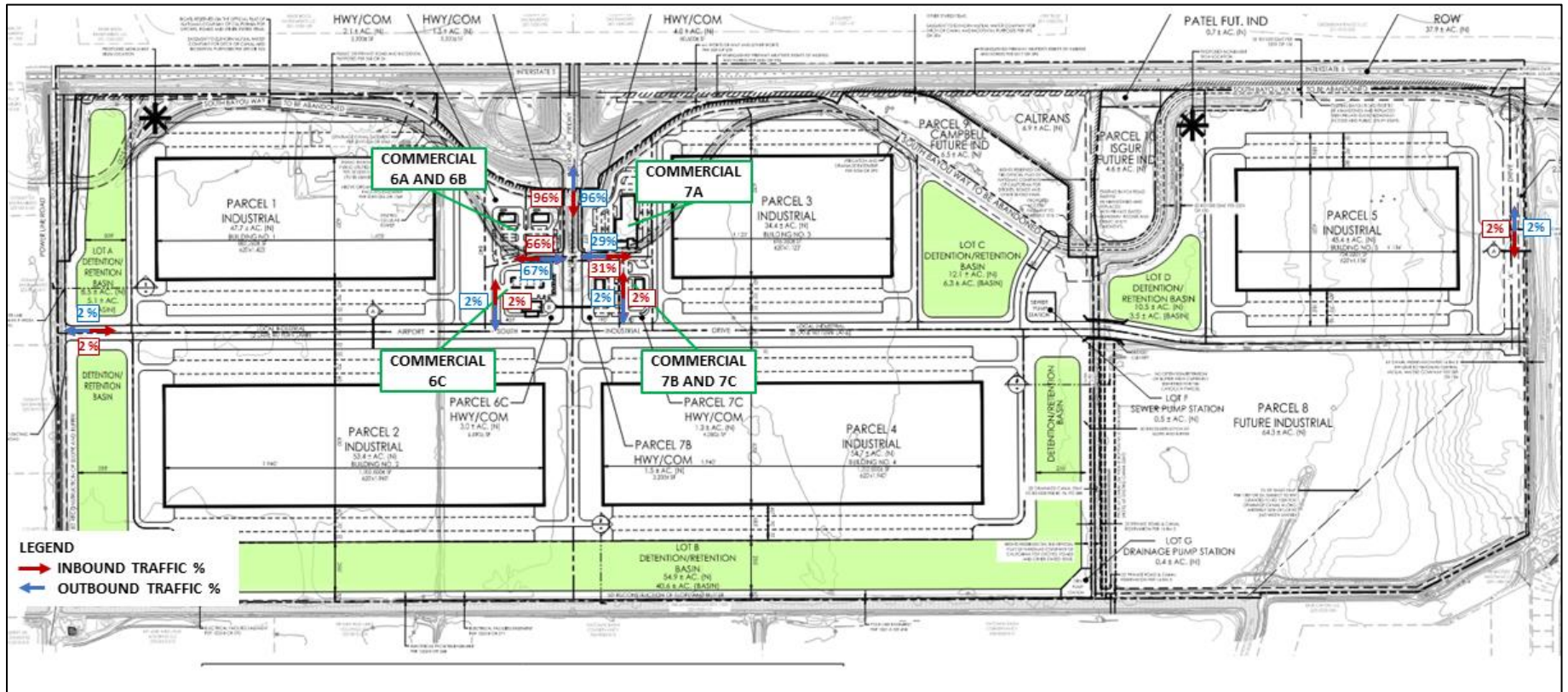


FIGURE 12: INTERNAL SITE DISTRIBUTION (COMMERCIAL TRIPS)

DEFICIENCY THRESHOLDS

Thresholds of significance adopted by the governing jurisdictions in applicable general plans and previous environmental documents, and professional judgment, a significant impact would occur if the proposed project meets the criteria in the following subsections.

INTERSECTIONS – CITY OF SACRAMENTO

- The traffic generated by the project degrades LOS from an acceptable LOS (without the project) to an unacceptable LOS (with the project),
- The LOS (without project) is unacceptable and project-generated traffic increases the average vehicle delay by 5 seconds or more.
- Note: General Plan Mobility Element Policy M 1.2.2 sets forth definitions for what is considered an acceptable LOS. As previously discussed, Policy M 1.2.2 applies to the study area roadway facilities as follows:
 - LOS D or better is acceptable on all study area roadways.
- Result in increasing the length of an existing queue beyond the available storage at any intersection's right- or left-turn storage pocket by more than one vehicle length (25-feet).
- Result in increasing the length of an existing queue already exceeding the available storage at any intersection's right- or left-turn storage pocket by more than one vehicle length (25-feet).
- Result in an unsignalized intersection that is not warranted for a signal without the addition of a project being warranted for a signal with the addition of the project.

INTERSECTIONS – SACRAMENTO COUNTY

- At signalized intersections:
 - The traffic generated by the project results in a signalized intersection operating at an acceptable LOS to deteriorate to an unacceptable LOS.
 - The traffic generated by the project results in an increase the average delay by more than 5 seconds at an intersection that is operating at an unacceptable LOS without the project.
- At unsignalized intersections:
 - The traffic generated by the project results in an unsignalized intersection movement/approach operating at an acceptable LOS to deteriorate to an unacceptable LOS, and also causes the intersection to meet a traffic signal warrant.
 - For an unsignalized intersection that meets a signal warrant, traffic generated by the project increases the delay by more than 5 seconds at a movement/approach that is operating at an unacceptable LOS without the project.
- Note: The county defines the minimum acceptable operation level for its roadways and intersections to be LOS D for rural areas and LOS E for urban areas.

SEGMENTS – CITY OF SACRAMENTO

- LOS E is allowed on all roadway segments and associated intersections located within ½ mile walking distance of light rail stations.
- Except as noted above, LOS A-D is to be maintained at all times; provided, LOS E or F may be acceptable if improvements are made to the overall transportation system and/or non-vehicular transportation and transit are promoted as part of the project or a City-initiated project.

SEGMENTS – SACRAMENTO COUNTY

- The traffic generated by the project results in a roadway segment operating at an acceptable LOS to deteriorate to an unacceptable LOS; or
- The traffic generated by the project results increases the V/C ratio by more than 0.05 at a roadway segment that is operating at an unacceptable LOS without the project.
- For substandard rural roadway segments:
 - The traffic generated by the project causes the segment to exceed an average daily traffic volume of 6,000 daily vehicles.
 - The traffic generated by the project adds 600 or more new daily vehicle trips to a substandard rural roadway that already carries 6,000 or more daily vehicles.

CALTRANS FACILITIES

- The off-ramp queue is greater than the storage capacity.

TRANSIT

- Adversely affect public transit operations,
- Fail to adequately provide access to transit.

BICYCLE FACILITIES

- Adversely affect existing or planned bicycle facilities,
- Fail to adequately provide for access by bicycle.

PEDESTRIAN CIRCULATION

- Adversely affect existing or planned pedestrian facilities,
- Fail to adequately provide for access by pedestrians.

CONSTRUCTION-RELATED TRAFFIC IMPACTS

- Degrade an intersection or roadway to an unacceptable level,
- Cause inconveniences to motorists due to prolonged road closures, or
- Result in an increased frequency of potential conflicts between vehicles, pedestrians, and bicyclists.

TRAFFIC FORECASTING METHODOLOGY

A modified version of the City of Sacramento's 2040 Draft General Plan model (itself based on SACOG's SACSIM19 travel demand model) was applied to forecast traffic volumes under Baseline and Cumulative scenarios. Specifically, unique model runs for the following scenarios were prepared:

- Existing Conditions Scenario (for post-processing purposes only)
 - City General Plan base year model with zone splits
- Baseline Scenario
 - Existing Conditions plus planned and approved land use in Metro Air Park and Northlake
- Baseline with Project Scenario
 - Baseline scenario plus Airport South Industrial project
- Cumulative Scenario
 - City General Plan Cumulative plus project with zone splits and buildout of Metro Air Park
- Cumulative with Project Scenario
 - Cumulative scenario Plus Airport South Industrial project

To better represent the study area land use and transportation network, a number of Traffic Analysis Zones (TAZs) were subdivided into smaller zones. Specifically, the four TAZs that represent Metro Air Park in the source model were subdivided into fourteen TAZs, the Westlake area and Paso Verde School were subdivided from one zone into two zones, and the Airport South Industrial area was subdivided from parts of two source zones into eight zones (six industrial zones and two highway commercial zones). Zone splits are shown in **Figure 13**.

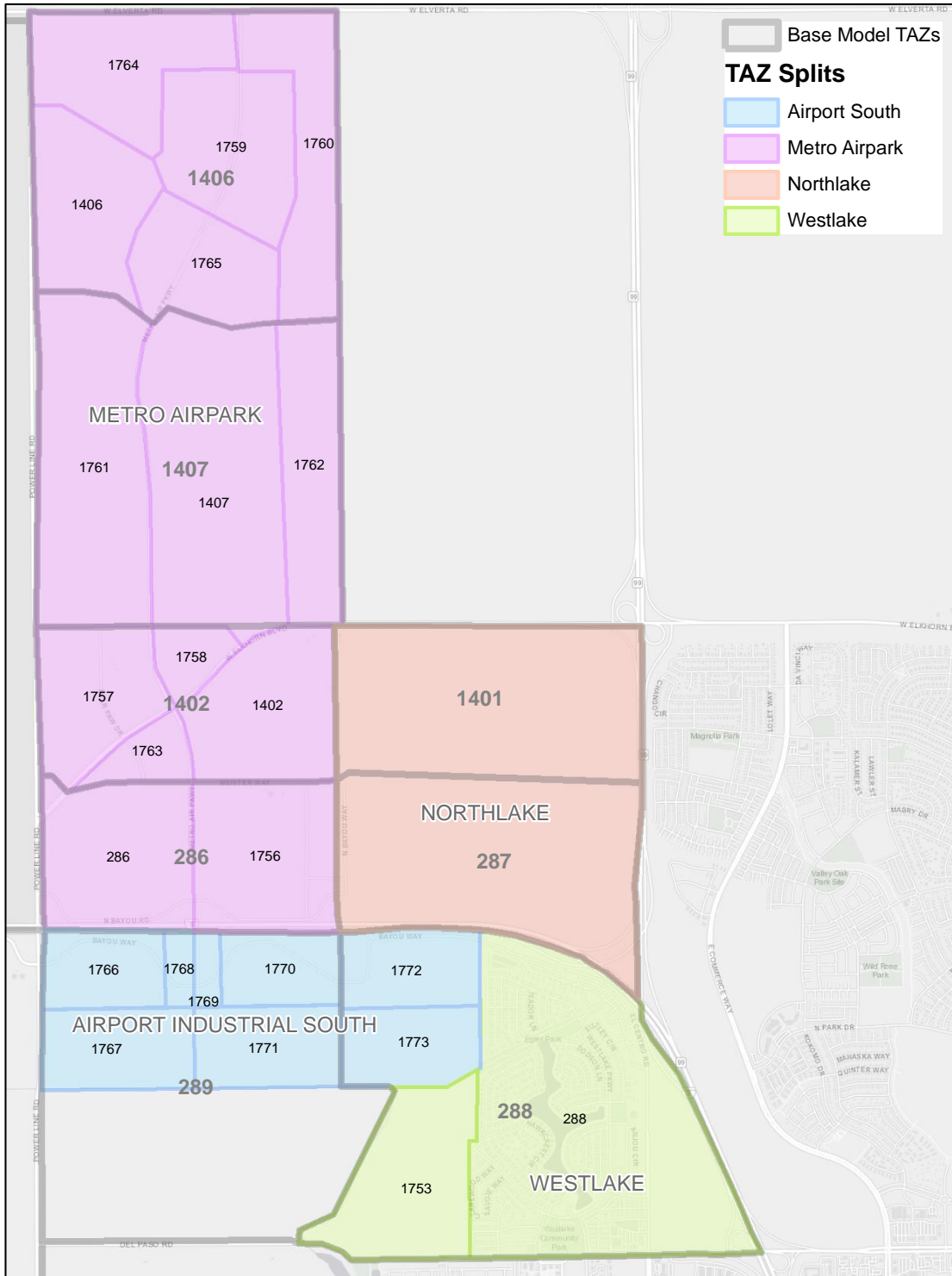


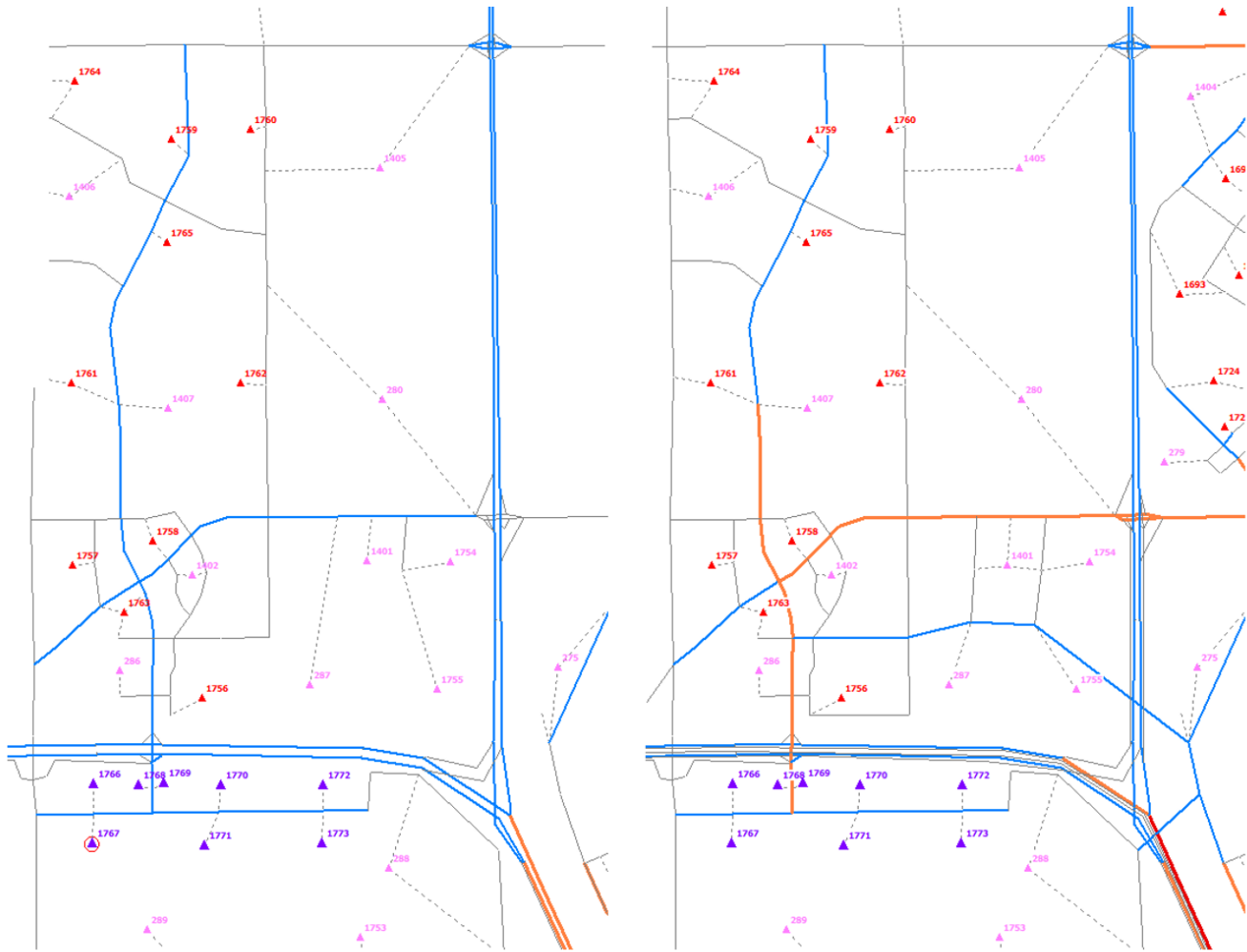
FIGURE 13: STUDY AREA TRAFFIC ANALYSIS ZONE SPLITS

Land use in the SACSIM19 travel demand model is represented at a parcel or “quasi-parcel” level by households and associated population for residential land uses and by employment for non-residential land uses. Employment is divided into nine categories, including education, food / beverage, government, office, medical, industrial, service, retail, and other. General land uses (such as industrial or commercial) are represented by combinations of more detailed employment based on proportions established by SACOG. For example, industrial land uses consist predominantly of industrial employment, but also include smaller amounts of other employment such as retail and food / beverage. Similarly, highway commercial land uses are predominantly retail and food / beverage, but also may include other uses such as service and government.

In addition, the number of employees must be estimated as an input to the model. This is typically accomplished by developing rates of square footage per employee for different employment categories. For the purposes of this project, square footage per employee rates were estimated based on existing and under construction development in Metro Air Park, as provided by Sacramento County and the developer for use in this analysis. In general, Metro Air Park (existing and currently under construction) consists of approximately six million square feet of development and approximately 4,800 jobs, yielding approximately 1,250 square feet per employee. Baseline conditions for Metro Air Park yields approximately 7,000 employees and Cumulative conditions for Metro Air Park yields approximately 13,500 employees. Additionally, employment for the proposed Airport South Industrial uses was calculated using the same assumption of square footage per employee as Metro Air Park, yielding approximately 3,781 total employees for the proposed project.

In addition to the TAZ and land use modifications, model roadway network edits were performed to reflect the roadway network in the study area in greater detail. The same zone splits applied to the model land use data were applied to the model roadway network and roadway links were added to represent additional study roadways. These edits included better reflecting the planned roadway improvements from Metro Air Park, Northlake, Grand Park, and other nearby developments. The number of lanes, capacity class, and roadway speeds were reviewed for consistency and updated as necessary to align with City and County plans for the area. Model roadway networks for Baseline with Project and Cumulative with Project are shown in **Figure 14**.

Based on the City of Sacramento’s 2040 Draft General Plan model Metro Air Parkway and Elkhorn Boulevard were originally represented as a four-lane roads. This was later corrected to a six-lane configuration to align with other County specific plans in the area. To account for the six-lane configuration, manual volume changes were made to redistribute traffic to these roadways from the freeway system based on a calibrated six-lane test scenario.



Baseline Plus Project

Cumulative Plus Project

- ▲ Base Model Zones
- ▲ Metro AirPark Zone Splits
- ▲ Airport South Industrial Zone Splits
- 1 Lane Per Direction
- 2 Lanes Per Direction
- 3 Lanes Per Direction
- 4 Lanes Per Direction
- 5+ Lanes Per Direction
- - - Zone Connector

FIGURE 14: STUDY AREA TRAFFIC MODEL ROADWAY NETWORKS

BASELINE AND BASELINE WITH PROJECT TRAFFIC CONDITIONS

This section summarizes the analysis of near-term baseline conditions and includes pending and approved developments and roadway projects near the applicant’s site. This analysis is based on the best information available from the City of Sacramento and County of Sacramento as of October 2022 and represents a best estimate what traffic conditions will be at the time of project opening both with and without the project.

TRAFFIC VOLUMES AND LANE CONFIGURATIONS

Baseline and Baseline with Project traffic volumes were calculated by adding the trips associated with the project to baseline traffic volumes. **Figure 15** and **Figure 16** illustrate the baseline and Baseline with Project peak hour traffic volumes and the lane configurations used in the analysis. **Table 8** summarizes the changes from existing conditions to the baseline analysis scenario. Baseline improvements from existing conditions are based on feedback from Sacramento County staff. **Table 9** summarizes the changes from the baseline to the Baseline with Project scenario. Improvements from Baseline to Baseline with Project is based on signal warrant analysis completed and minimum geometrics needed to meet City standard.

TABLE 8: GEOMETRY COMPARISON TABLE: EXISTING TO BASELINE

	EXISTING					IMPROVEMENT	BASELINE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
3. Metro Air Pkwy & I-5 Northbound Ramps	TWSC	↖↑	↘↓		↖↗	Signalization and widen Metro Air Pkwy and West Elkhorn Blvd from 2 lanes to 4 lanes	Signal	↖↑	↘↓		↖↗
4. Metro Air Pkwy & I-5 Southbound Ramps	TWSC	↖	↘↓	↘			Signal	↖	↘↓	↘	
12. Metro Air Pkwy & West Elkhorn Boulevard	AWSC	↖↗	↘↙	↘↙	↘↙		Signal	↖↑↑↗	↘↓↓↙	↘↑↑↗	↘↑↑↗
13. West Elkhorn Boulevard & SR-99 Northbound Ramps	Signal	↖↗		↘	↘	Widen Metro Air Pkwy (north of I-5 interchange to West Elkhorn Blvd) and West Elkhorn Blvd (Power Line Rd to Lone Tree Road) from 2 lanes to 4 lanes	Signal	↖↗		↘	↘↑
14. West Elkhorn Boulevard & SR-99 Southbound Ramps	Signal		↘↙	↘↑	↘↑		Signal		↘↙	↘↑↑	↘↑↑
15. East Commerce Way & West Elkhorn Boulevard	Signal	↖↗		↘↑↑	↘↑		Signal	↖↗		↘↑↑	↘↑↑

	EXISTING					IMPROVEMENT	BASELINE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
20. Power Line Road & West Elkhorn Boulevard	AWSC	↖	↗		↘		AWSC	↖	↗		↘↗
21. Metro Air Pkwy & Pacific Gateway Drive	TWSC	↖↗	↗↖	↖↗	↗↖	Widen Metro Air Pkwy and West Elkhorn Blvd from 2 lanes to 4 lanes and add turn lanes on all approaches	TWSC	↖↗↘	↗↖↘	↖↗↘	↗↖↘
22. Metro Air Pkwy & Meister Way	TWSC	↑	↓			Widen Metro Air Pkwy and West Elkhorn Blvd from 2 lanes to 4 lanes, construct EB and WB approaches, and add turn lanes on NB and SB approaches	TWSC	↖↗↘	↗↖↘	↖↗↘	↗↖↘

	EXISTING					IMPROVEMENT	BASELINE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
23. Badiie Drive & West Elkhorn Boulevard	TWSC	Y		↵	↵	Signalization, widen Metro Air Pkwy and West Elkhorn Blvd from 2 lanes to 4 lanes, construct SB approach, and add turn lanes on NB, EB, and WB approaches	Signal	↵ ↑ ↵	↵ ↓ ↵	↵ ↑ ↵ ↵ ↑ ↵	↵ ↑ ↵ ↵ ↑ ↵
24. Ameri Drive & West Elkhorn Boulevard	TWSC	Y		↵	↵	Widen Metro Air Pkwy and West Elkhorn Blvd from 2 lanes to 4 lanes, construct SB approach, and add turn lanes on NB, EB, and WB approaches	TWSC	↵ ↵	↵ ↵	↵ ↑ ↵ ↵ ↑ ↵	↵ ↑ ↵ ↵ ↑ ↵
25. Lone Tree Road & West Elkhorn Boulevard	TWSC	↵	↵	↵	↵ ↵	Signalization and turn lanes to the NB and SB approaches	Signal	↵ ↑ ↵	↵ ↓ ↵	↵ ↑ ↵ ↵ ↑ ↵	↵ ↑ ↵ ↵ ↑ ↵

TABLE 9: GEOMETRY COMPARISON TABLE: BASELINE TO BASELINE WITH PROJECT

	BASELINE					IMPROVEMENT	BASELINE WITH PROJECT				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
3. Metro Air Pkwy & I-5 northbound ramps	TWSC	↖ ↑	↘ ↓		↖ ↘	Signalization, add dual WB left turn lanes	Signal	↖ ↑	↘ ↓		↖ ↘
4. Metro Air Pkwy & I-5 southbound ramps	TWSC	↖	↘ ↓	↙		Signalization, add second southbound through lane between NB and SB ramp intersections, add dual NB left turn lanes	Signal	↖ ↖ ↑	↘ ↓ ↓	↘ ↘	

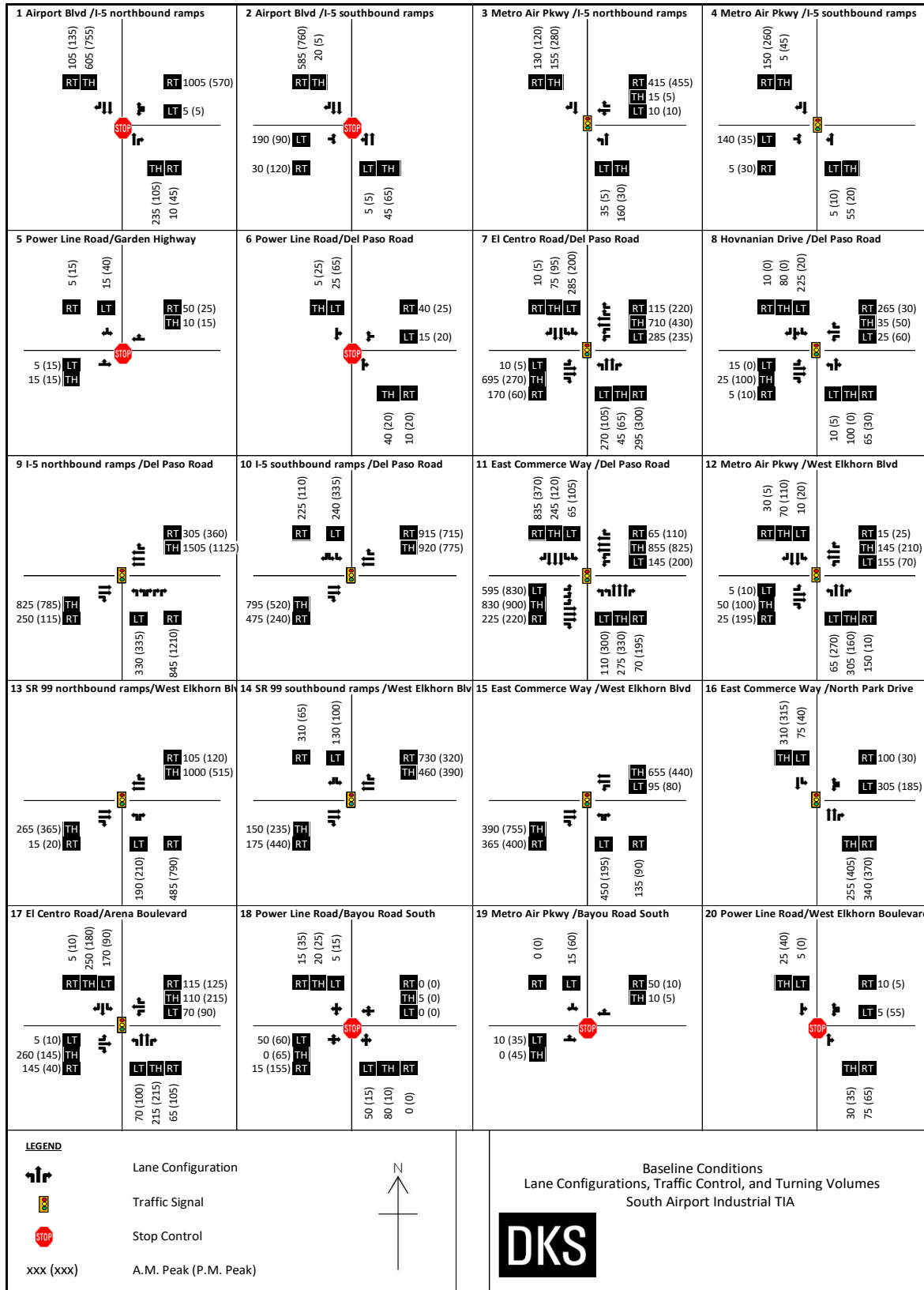


FIGURE 15. BASELINE LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

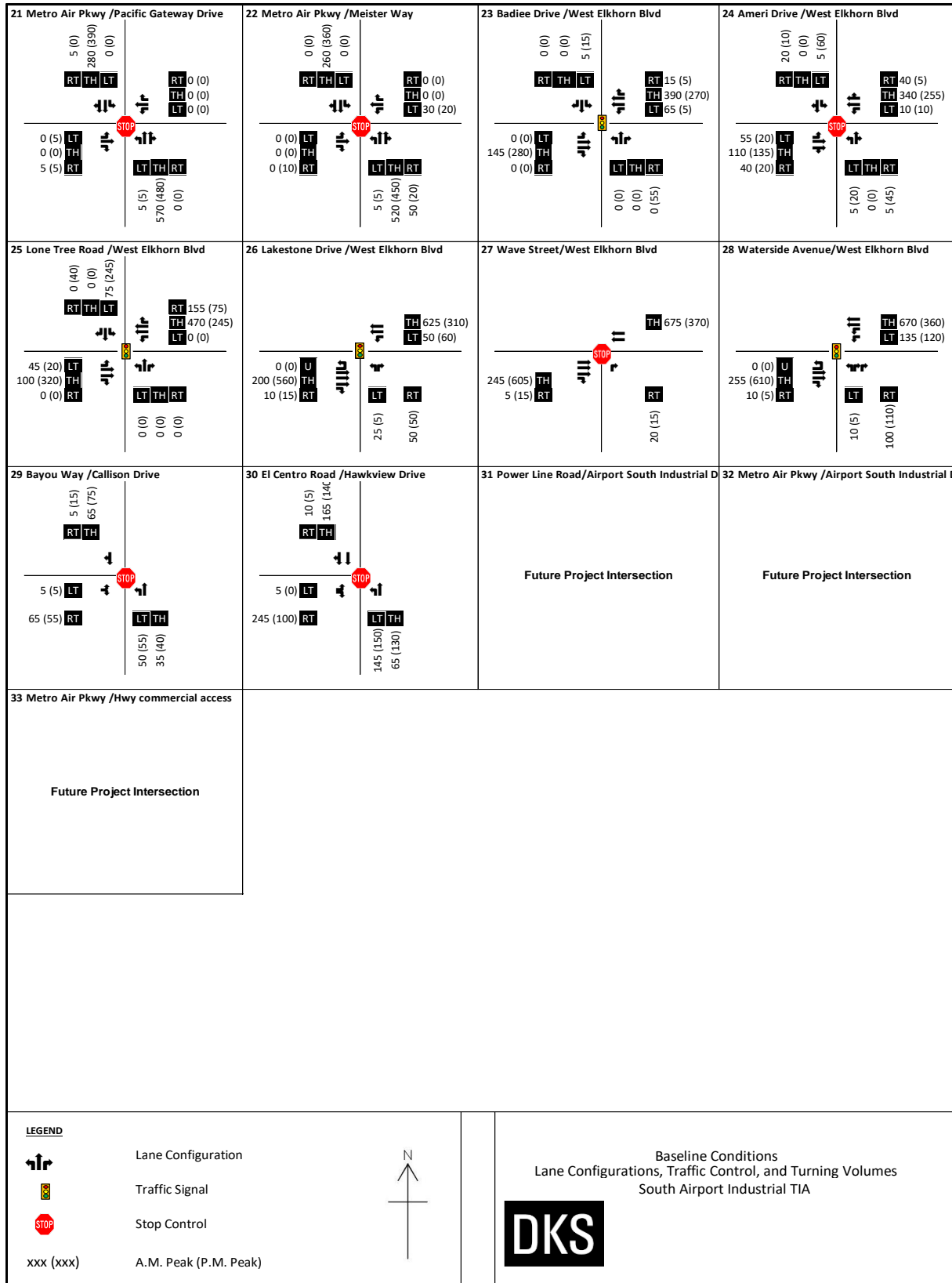


FIGURE 15. BASELINE LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

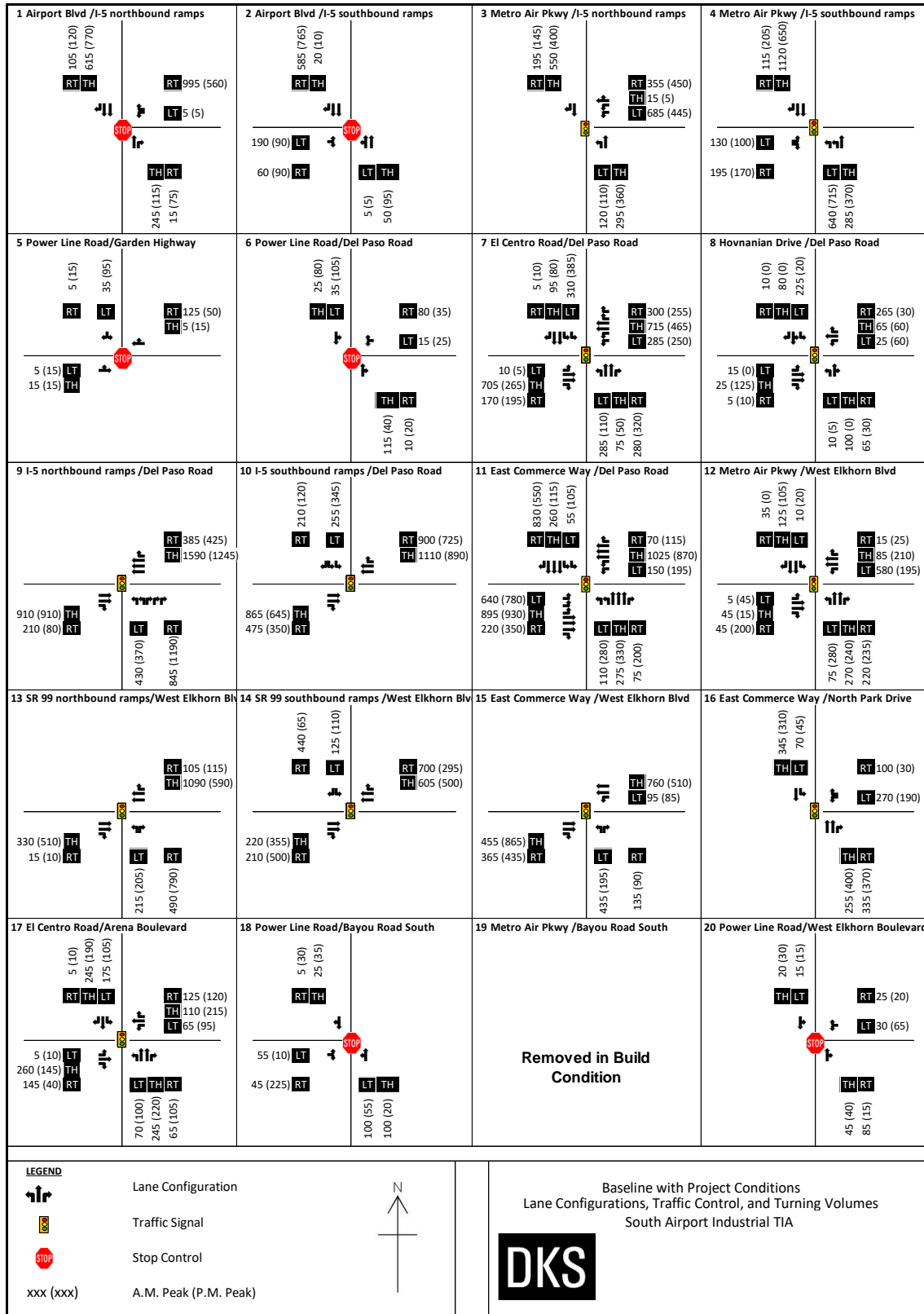


FIGURE 16. BASELINE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

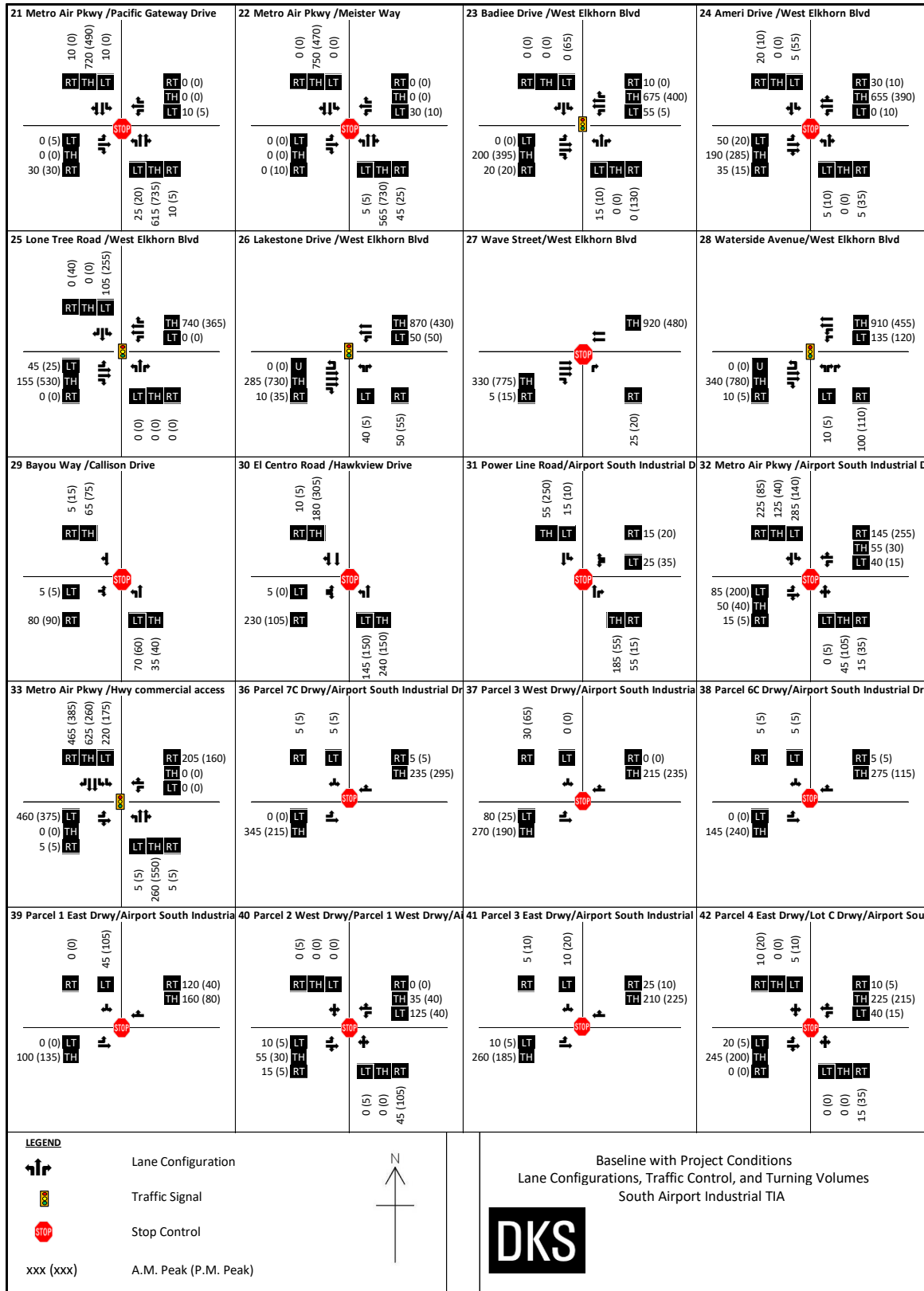


FIGURE 16. BASELINE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

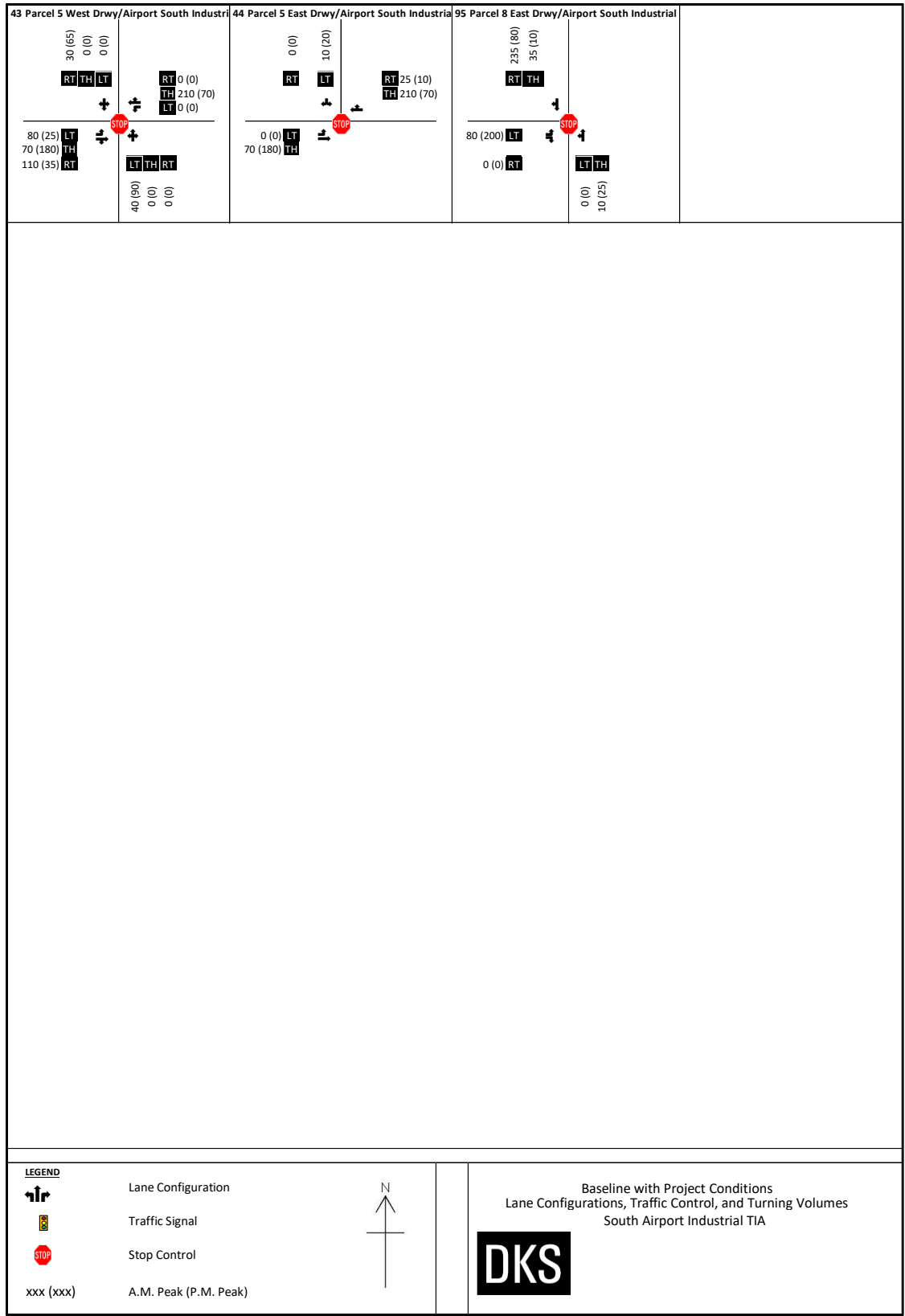


FIGURE 16. BASELINE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

INTERSECTION OPERATIONS ANALYSIS

A summary of the intersection operations analysis is presented in **Table 10**. A summary of the intersection queueing analysis for the Baseline condition is presented in **Table 11**. A summary of the intersection queueing analysis for the Baseline with Project condition is presented in **Table 12**. Only locations where at least one movement exceeds its storage capacity are reported in these tables. **Appendix C** includes the analysis details and worksheets for all locations.

Under Baseline conditions, the Del Paso Road and East Commerce Way intersection is the only study intersection experiencing operational deficiencies, and is expected to operate at LOS E during the p.m. peak hour. Under baseline conditions, there are existing queue deficiencies for several movements at this intersection.

Under the Baseline with Project condition, signal warrant analysis was completed to determine if any intersections related to the project would require signalization. From this analysis, it was determined that the on-site intersection for the commercial access would require signalization at the time the project opens. With this assumed signal in place, none of the study intersections would experience degradation in delay when compared with the no project condition. The project does contribute to degradation in queueing at several locations:

- Intersection 7: Del Paso Road and El Centro Road
- Intersection 11: Del Paso Road and East Commerce Way
- Intersection 12: West Elkhorn Boulevard and Metro Air Parkway

Additionally, the following on-site intersection develops queues which would block access at site driveways:

- Intersection 32: Airport South Industrial Drive and Metro Air Parkway

Specific improvements for these locations will be identified as part of the project phasing and improvements funding plan. For the intersection of Airport South Industrial Drive and Metro Air Parkway, changes in driveway spacing should be considered so that queueing does not regularly block driveway access.

Note that Baseline with Project impacts identified in the LTA assumes 100 percent buildout of the Airport South Industrial development applied against the baseline condition. Given the buildout of the Project is over multiple years with additional improvements constructed off-site, the baseline plus project off-site impacts may be phased as needed with subsequent review and analysis.

TABLE 10. BASELINE AND BASELINE WITH PROJECT INTERSECTION OPERATIONS ANALYSIS

INTERSECTION	BASELINE INTERSECTION OPERATING CONDITIONS					BASELINE WITH PROJECT OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	TWSC	1.3 [9.8 - WBL]	A [A]	0.7 [14.4 - WBL]	A [B]	TWSC	1.2 [15.4 - WBL]	A [C]	0.7 [11.4 - WBL]	A [B]
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	TWSC	3.4 [4.3 - EBL]	A [A]	2.6 [4.4 - EBL]	A [A]	TWSC	3.6 [4.9 - EBL]	A [A]	2.3 [4.2 - EBL]	A [A]
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	Signal	7.1	A	6.6	A	Signal	19.9	B	17.3	B
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	Signal	8.8	A	7.4	A	Signal	21.7	C	19.3	B
5. GARDEN HIGHWAY AND POWER LINE ROAD	TWSC	0.6 [2.6 - SBL]	A [A]	1.4 [3.1 - SBL]	A [A]	TWSC	1 [2.6 - SBL]	A [A]	2.5 [4.1 - SBL]	A [A]
6. DEL PASO ROAD AND POWER LINE ROAD	TWSC	1.1 [2.8 - WBL]	A [A]	0.9 [2.7 - WBL]	A [A]	TWSC	1.7 [3.9 - WBR]	A [A]	1.6 [5 - WBL]	A [A]
7. DEL PASO ROAD AND EL CENTRO ROAD	Signal	25.8	C	18.3	B	Signal	26.8	C	18.3	B
8. DEL PASO ROAD AND HOVNANIAN DRIVE	Signal	13.2	B	4.6	A	Signal	14.3	B	6.8	A
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	Signal	16.4	B	17.2	B	Signal	22.1	C	20.3	C
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	Signal	7	A	7	A	Signal	7.6	A	7.2	A
11. DEL PASO ROAD AND EAST COMMERCE WAY	Signal	50.6	D	63.8	E	Signal	57.4	E	56.7	E

INTERSECTION	BASELINE INTERSECTION OPERATING CONDITIONS					BASELINE WITH PROJECT OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
12. WEST ELKHORN BOULEVARD AND METRO AIR PARKWAY	Signal	9.2	A	13.8	B	Signal	21.1	C	15.2	B
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	Signal	7.6	A	7	A	Signal	7	A	6.7	A
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	Signal	6.8	A	4.1	A	Signal	8.8	A	4.3	A
15. WEST ELKHORN BOULEVARD AND EAST COMMERCE WAY	Signal	13.8	B	10.4	B	Signal	13.9	B	11.1	B
16. NORTH PARK DRIVE AND EAST COMMERCE WAY	Signal	8.5	A	6.6	A	Signal	7.8	A	7	A
17. ARENA BOULEVARD AND EL CENTRO ROAD	Signal	21	C	15	B	Signal	18.2	B	15.7	B
18. BAYOU ROAD SOUTH AND POWER LINE ROAD	TWSC	2.5 [5 - SBT]	A [A]	5.1 [9.8 - EBT]	A [A]	TWSC	2.6 [5.7 - EBL]	A [A]	3.4 [6.2 - EBL]	A [A]
19. BAYOU ROAD SOUTH AND METRO AIR PARKWAY	AWSC	3.3	A	5.4	A	Removed with project				
20. POWER LINE ROAD AND WEST ELKHORN BOULEVARD	AWSC	3.8	A	3.7	A	AWSC	3.8	A	4.4	A
21. METRO AIR PARKWAY AND PACIFIC GATEWAY DRIVE	TWSC	0.9 [3.2 - NBL]	A [A]	0.6 [10.2 - EBL]	A [B]	TWSC	1.7 [31.3 - WBL]	A [D]	1.5 [17.2 - WBL]	A [C]

INTERSECTION	BASELINE INTERSECTION OPERATING CONDITIONS					BASELINE WITH PROJECT OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
22. METRO AIR PARKWAY AND MEISTER WAY	TWSC	1.2 [12.6 - WBL]	A [B]	1.3 [10.7 - WBL]	A [B]	TWSC	1.8 [20.8 - WBL]	A [C]	1.3 [16.6 - WBL]	A [C]
23. WEST ELKHORN BOULEVARD AND BADIEE DRIVE	Signal	4.4	A	4.1	A	Signal	5.9	A	7.4	A
24. WEST ELKHORN BOULEVARD AND AMERI DRIVE	TWSC	1.6 [7 - SBL]	A [A]	2.7 [6.3 - SBL]	A [A]	TWSC	3.3 [17.6 - SBL]	A [C]	2.6 [8.8 - SBL]	A [A]
25. WEST ELKHORN BOULEVARD AND LONE TREE ROAD	Signal	5.3	A	7.5	A	Signal	7.5	A	9.5	A
26. WEST ELKHORN BOULEVARD AND LAKESTONE DRIVE	Signal	4.6	A	4.1	A	Signal	4.7	A	3.5	A
27. WEST ELKHORN BOULEVARD AND WAVE STREET	TWSC	1.9 [2.2 - NBR]	A [A]	1.8 [3.6 - WBL]	A [A]	TWSC	2.2 [2.4 - NBR]	A [A]	2.1 [2.5 - NBR]	A [A]
28. WEST ELKHORN BOULEVARD AND WATERSIDE AVENUE	Signal	5.4	A	6.2	A	Signal	5.9	A	7.1	A
29. BAYOU WAY AND CALLISON DRIVE	AWSC	5.2	A	4.9	A	AWSC	3.7	A	4.7	A
30. EL CENTRO ROAD AND HAWKVIEW DRIVE AIRPORT	TWSC	2.7 [6.2 - EBL]	A [A]	1.4 [3.3 - EBR]	A [A]	TWSC	2.2 [9.1 - EBL]	A [A]	1.7 [4.7 - EBR]	A [A]
31. AIRPORT SOUTH INDUSTRIAL DRIVE AND POWER LINE ROAD		Project Only Intersection				TWSC	1.1 [4.8 - WBL]	A [A]	1 [5.1 - WBL]	A [A]

INTERSECTION	BASELINE INTERSECTION OPERATING CONDITIONS				BASELINE WITH PROJECT OPERATING CONDITIONS					
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
32. AIRPORT SOUTH INDUSTRIAL DRIVE AND METRO AIR PARKWAY		Project Only Intersection				AWSC	9.0	A	6.5	A
33. HIGHWAY COMMERCIAL ACCESS AND METRO AIR PARKWAY		Project Only Intersection				Signal	19.8	B	18.8	B
36. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 7C DRIVEWAY		Project Only Intersection				TWSC	1.1 [4.4 - SBL]	A [A]	1.0 [8.4 - SBL]	A [A]
37. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 3 WEST DRIVEWAY		Project Only Intersection				TWSC	0.8 [3.7 - SBR]	A [A]	0.9 [3.8 - SBR]	A [A]
38. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 6C DRIVEWAY		Project Only Intersection				TWSC	0.6 [7.7 - SBL]	A [A]	0.6 [4.9 - SBL]	A [A]
39. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 1 EAST DRIVEWAY		Project Only Intersection				TWSC	1.0 [6.1 - SBL]	A [A]	1.8 [5.2 - SBL]	A [A]
40. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 2 WEST DRIVEWAY/PARCEL 1 WEST DRIVEWAY		Project Only Intersection				TWSC	1.4 [2.7 - NBR]	A [A]	1.8 [4.9 - NBL]	A [A]
41. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 3 EAST DRIVEWAY		Project Only Intersection				TWSC	0.5 [5.0 - SBL]	A [A]	0.5 [4.9 - SBL]	A [A]
42. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 4 EAST DRIVEWAY/LOT C DRIVEWAY		Project Only Intersection				TWSC	0.5 [5.7 - SBL]	A [A]	0.7 [5.1 - SBL]	A [A]

INTERSECTION	BASELINE INTERSECTION OPERATING CONDITIONS					BASELINE WITH PROJECT OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY (S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
43. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 5 WEST DRIVEWAY		Project Only Intersection				TWSC	1.6 [7.5 - NBL]	A [A]	2.3 [7.3 - NBL]	A [A]
44. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 5 EAST DRIVEWAY		Project Only Intersection				TWSC	0.7 [6 - SBL]	A [A]	1.3 [4.4 - SBL]	A [A]
95. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 8 EAST DRIVEWAY		Project Only Intersection				AWSC	5.0	A	4.0	A

Key: [Worst stop-controlled delay] for TWSC intersections

Notes:

Black bolded results indicate an operational deficiency.

Red bolded results indicate an operational deficiency either caused by or exacerbated by the project.

Values rounded up to the nearest multiple of five.

TABLE 11. BASELINE INTERSECTION QUEUE ANALYSIS

BASELINE INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	WBL	1,350	20	20
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,375	60	60
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	WBL/WBT	1,575	35	25
	WBR	160	145	105
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	NBL	160	60	20
	EBL/EBR	1,600	115	50
7. DEL PASO ROAD AND EL CENTRO ROAD	SBR	130	90	90
	EBR	140	150	40
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	NBL	280	260	100
	NBL	1,270	295	295
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	NBR	1,270	320	380
	SBL	1,100	105	125
11. DEL PASO ROAD AND EAST COMMERCE WAY	SBR	250	120	80
	EBL	375	535	510
	WBR	140	150	175
	NBL	245	160	400
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	SBR	300	325	150
	NBL	1,525	145	85
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	SBL	400	85	165
	SBR	1,480	115	85
17. ARENA BOULEVARD AND EL CENTRO ROAD	SBL	400	90	75

TABLE 12. BASELINE WITH PROJECT INTERSECTION QUEUE ANALYSIS

BASELINE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	WBL	1,350	20	20
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,375	75	60
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	WBL	350	270	175
	WBT/WBR	1,575	180	180
	NBL	100	150	145
	NBT	875	220	245
	SBT	700	330	305
	SBR	650	100	95
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	EBL	1,600	135	115
	EBR	170	95	45
	NBL	300	200	220
	NBT	470	205	240
	SBT	840	405	260
	SBR	130	255	185
7. DEL PASO ROAD AND EL CENTRO ROAD	EBR	140	145	80
	NBL	280	295	120
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	NBL	1,270	480	355
	NBR	1,270	345	465
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	SBL	1,100	100	135
	SBR	250	140	90
11. DEL PASO ROAD AND EAST COMMERCE WAY	EBL	375	570	530
	WBR	140	225	195
	NBL	245	135	395
	SBR	300	340	230
12. WEST ELKHORN BOULEVARD AND METRO AIR PARKWAY	WBL	350	410	185

BASELINE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
	NBL	400	105	245
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	NBL	1,525	130	115
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	SBL	1,480	80	75
	SBR	400	150	55
25. WEST ELKHORN BOULEVARD AND LONE TREE ROAD	SBL	150	85	135
	EBL	100	65	90
32. AIRPORT SOUTH INDUSTRIAL DRIVE AND METRO AIR PARKWAY	EBT/EBR	160	55	55
	WBL	100	60	50
	WBT/WBR	70	85	105
	NBL/NBT/NBR	-	60	85
	SBL	150	155	90
	SBT/SBR	290	190	90
		EBL	-	270	235
33. HIGHWAY COMMERCIAL ACCESS AND METRO AIR PARKWAY	EBT/EBR	-	75	50
	WBL	-	25	20
	WBT/WBR	-	115	110
	NBL	-	20	220
	NBT/NBR	350	90	180
	SBL	-	150	110
	SBT	550	255	115
	SBR	-	185	135

Notes:

Black bolded results indicate an operational deficiency.

Red bolded results indicate an operational deficiency either caused by or exacerbated by the project.

Values rounded up to the nearest multiple of five.

SEGMENT OPERATIONS ANALYSIS

As summarized in **Table 13**, most segments are expected to continue to operate with LOS C or better in Baseline and Baseline with Project conditions. Baseline and Baseline with Project segment volumes are shown in **Figure 17** and **Figure 18**.

TABLE 13: BASELINE SEGMENT RESULTS SUMMARY

ROADWAY	EXTENTS	JURISDICTION	BASELINE			BASELINE WITH PROJECT		
			TYPE/LANES	COUNT	LOS	TYPE/LANES	COUNT	LOS
METRO AIR PARKWAY	I-5 to Pacific Gateway Drive	County	Arterial L 4	11,890	A	Arterial L 4	13,630	A
METRO AIR PARKWAY	Pacific Gateway Drive to Meister Way	County	Arterial L 4	14,210	A	Arterial L 4	15,930	A
METRO AIR PARKWAY	Meister Way to Elkhorn Boulevard	County	Arterial L 4	13,610	A	Arterial L 4	15,230	A
WEST ELKHORN BOULEVARD	Lone Tree Road to Baidee Drive	County	Arterial L 4	6,550	A	Arterial L 4	8,650	A
POWER LINE ROAD	Garden Highway to Del Paso Road	County	Arterial M 2	730	A	Arterial M 2	1,040	A
POWER LINE ROAD	Bayou Road to Del Paso Road	County	Arterial M 2	1,640	A	Arterial M 2	2,120	A
POWER LINE ROAD	Bayou Road to Pacific Gateway Drive	County	Arterial M 2	2,120	A	Arterial M 2	2,140	A
POWER LINE ROAD	West Elkhorn Boulevard to Pacific Gateway Drive	County	Arterial M 2	1,740	A	Arterial M 2	1,750	A
DEL PASO ROAD	Power Line Road to Hovnanian Drive	County	Arterial M 2	1,700	A	Arterial M 2	1,860	A
EL CENTRO ROAD	Del Paso Road to Hawkview Drive	City	Arterial L 2	5,800	A	Arterial L 2	7,530	A
EL CENTRO ROAD	Hawkview Drive to Bayou way	City	Arterial L 2	3,110	A	Arterial L 2	4,940	A
GARDEN HIGHWAY	Power Line Road to Radio Road	County	Arterial M 2	780	A	Arterial M 2	1,080	A
GARDEN HIGHWAY	Radio Road to San Juan Road	County	Arterial M 2	920	A	Arterial M 2	1,190	A
GARDEN HIGHWAY	San Juan Road to City Limit	County	Arterial M 2	630	A	Arterial M 2	660	A
METRO AIR PARKWAY	I-5 to Airport South Industrial Drive	City	-	-	-	Arterial L 4	10,760	A

ROADWAY	EXTENTS	JURISDICTION	BASELINE			BASELINE WITH PROJECT		
			TYPE/LANES	COUNT	LOS	TYPE/LANES	COUNT	LOS
AIRPORT SOUTH INDUSTRIAL DRIVE	Power Line Road to Metro Air Parkway	City		-		Arterial L 2	3,690	A
AIRPORT SOUTH INDUSTRIAL DRIVE	Metro Air Parkway to "A" Drive	City		-		Arterial L 2	6,440	A
"A" DRIVE	Airport South Industrial Drive to Bayou Way	City		-		Arterial L 2	3,000	A
BAYOU WAY	"A" Drive to El Centro Road	City	Arterial L 2	2,660	A	Arterial L 2	4,490	A

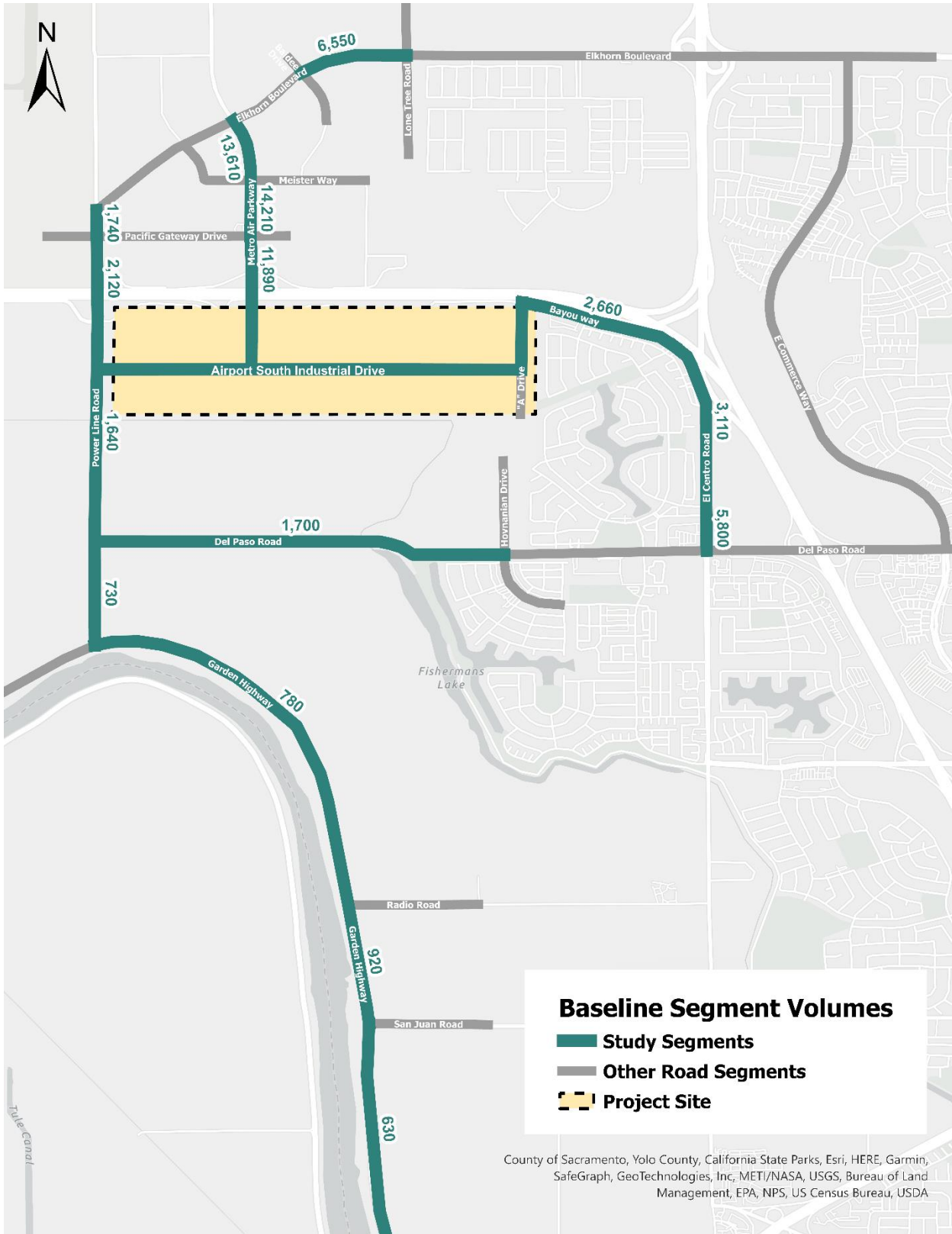


FIGURE 17: BASELINE SEGMENT VOLUMES

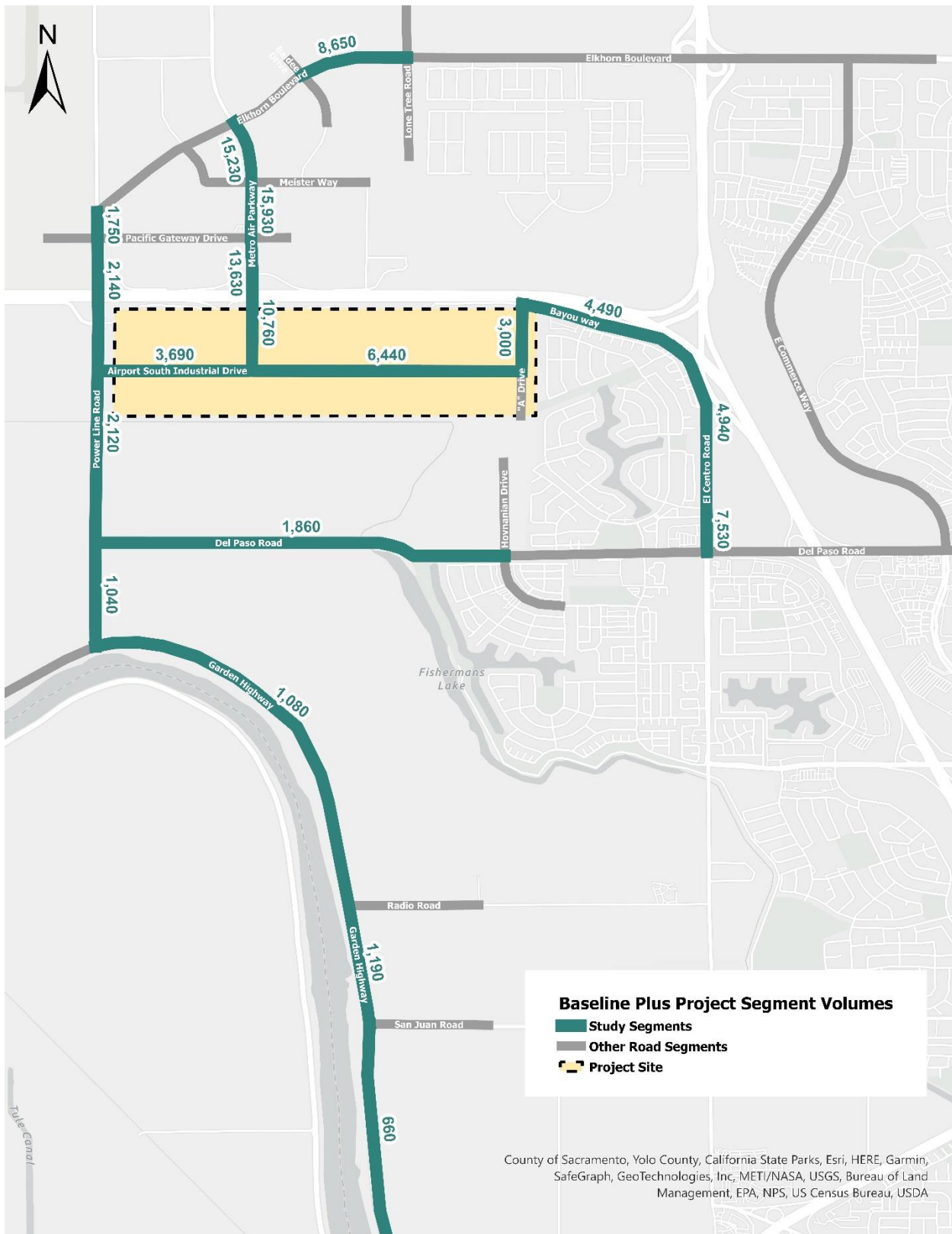


FIGURE 18: BASELINE WITH PROJECT SEGMENT VOLUMES

CUMULATIVE AND CUMULATIVE WITH PROJECT TRAFFIC CONDITIONS

This section summarizes the results of the traffic analysis conducted for cumulative conditions and includes all currently planned projects in the vicinity of the project site and their effects on local and regional traffic.

TRAFFIC VOLUMES AND LANE CONFIGURATIONS

Cumulative and Cumulative with Project traffic volumes were calculated by adding the trips associated with the project to baseline traffic volumes. **Figure 19** and **Figure 20** illustrate the cumulative and Cumulative with Project peak hour traffic volumes and the lane configurations used in the analysis. **Table 14** compares the changes from existing geometrics to the cumulative scenario. These changes include planned financially constrained improvements listed in SACOG's MTP/SCS and those expected to be constructed by other nearby projects including Metro Air Park. **Table 15** summarizes the changes from the cumulative scenario to the Cumulative with Project scenario.

TABLE 14: GEOMETRY COMPARISON TABLE: EXISTING TO CUMULATIVE

	EXISTING					IMPROVEMENT	CUMULATIVE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
3. Metro Air Pkwy & I-5 northbound ramps	TWSC	↖ ↑	↘ ↓		↗ ↘	Signalization, expand geometry to the Caltrans ultimate configuration	Signal	↑ ↑ ↗	↘ ↓ ↓ ↓		↗ ↘
4. Metro Air Pkwy & I-5 southbound ramps	TWSC	↘	↘ ↓	↘		Expand geometry to the Caltrans ultimate configuration	Signal	↑ ↑ ↗	↘ ↓ ↓	↘	
12. Metro Air Pkwy & West Elkhorn Boulevard	AWSC	↖ ↗	↘ ↘	↘ ↘	↘ ↘	Signalization, widen Metro Air Pkwy and West Elkhorn Blvd from 2 to 6 lanes	Signal	↖ ↖ ↑ ↑ ↗	↘ ↓ ↓ ↓ ↘ ↘	↘ ↘ ↑ ↑ ↘	↘ ↘ ↑ ↑ ↘
13. SR 99 northbound ramps & West Elkhorn Boulevard	Signal	↖ ↗		↘ ↑	↗ ↑	Expand geometry to the Caltrans ultimate configuration	Signal	↖ ↖ ↗ ↗		↑ ↑ ↑ ↘	↗ ↑ ↑ ↑
14. SR 99 southbound ramps & West Elkhorn Boulevard	Signal		↘ ↘	↘ ↑	↗ ↑		Signal		↘ ↘ ↘ ↘	↑ ↑ ↑ ↘	↗ ↑ ↑ ↑
15. East Commerce Way & West Elkhorn Boulevard	Signal	↖ ↗		↑ ↑ ↘	↘ ↑	Add a southbound leg to the intersection	Signal	↖ ↑ ↗	↘ ↘ ↓ ↓ ↘	↘ ↘ ↑ ↑ ↑ ↘	↘ ↘ ↑ ↑ ↑ ↘

	EXISTING					IMPROVEMENT	CUMULATIVE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
20. Power Line Road & West Elkhorn Boulevard	AWSC	↖	↗		↘	Signalization of Power Line Rd at West Elkhorn Blvd	Signal	↖↑↗	↘↙	↘↙	↖↑↗
21. Metro Air Pkwy & Pacific Gateway Drive	TWSC	↖↗	↖↗	↖↗	↖↗	Widen Metro Air Pkwy (north of I-5 interchange to West Elkhorn Blvd) and West Elkhorn Blvd (Power Line Rd to Lone Tree Road) from 2 lanes to 6 lanes	Signal	↖↑↑↗↘	↘↓↓↙	↘↙	↖↑↗
22. Metro Air Pkwy & Meister Way	TWSC	↑	↓				Signal	↖↑↑↗↘	↘↓↓↙	↘↙	↖↑↗
23. Badiie Drive & West Elkhorn Boulevard	TWSC	↘		↘	↘		Signal	↖↑↗	↘↙↘	↘↙↘	↖↑↑↗↘
24. Ameri Drive & West Elkhorn Boulevard	TWSC	↘		↘	↘		TWSC	↖↗	↘↙	↘↙↘	↖↑↑↗↘
25. Lone Tree Road & West Elkhorn Boulevard	TWSC	↗	↖	↘	↖↗		Signal	↖↑↗	↘↙↘	↘↙↘	↖↑↑↗↘
26. Lakestone Drive & West Elkhorn Boulevard	Signal	↖↗		↘↙↘	↖↑↗		Signal	↖↗		↘↙↘	↖↑↑↗↘
27. Wave Street & West Elkhorn Boulevard	TWSC	↗		↘↙↘	↖↑↗		TWSC	↖↗		↘↙↘	↖↑↑↗↘

	EXISTING					IMPROVEMENT	CUMULATIVE				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
28. Waterside Avenue & West Elkhorn Boulevard	Signal	↘↗↗		↘ ↑ ↑ ↑ ↘	↑ ↑ ↘		Signal	↘↗↗		↘ ↑ ↑ ↑ ↘	↑ ↑ ↑ ↘

TABLE 15: GEOMETRY COMPARISON TABLE: CUMULATIVE TO CUMULATIVE WITH PROJECT

	CUMULATIVE					IMPROVEMENT	CUMULATIVE WITH PROJECT				
	CONTROL	NB	SB	EB	WB		CONTROL	NB	SB	EB	WB
3. Metro Air Pkwy & I-5 northbound ramps	Signal	↑↑↗	↘↓↓↓		↘ ↘	Add dual left WB turn lanes	Signal	↑↑↗	↘↓↓↓		↘ ↘

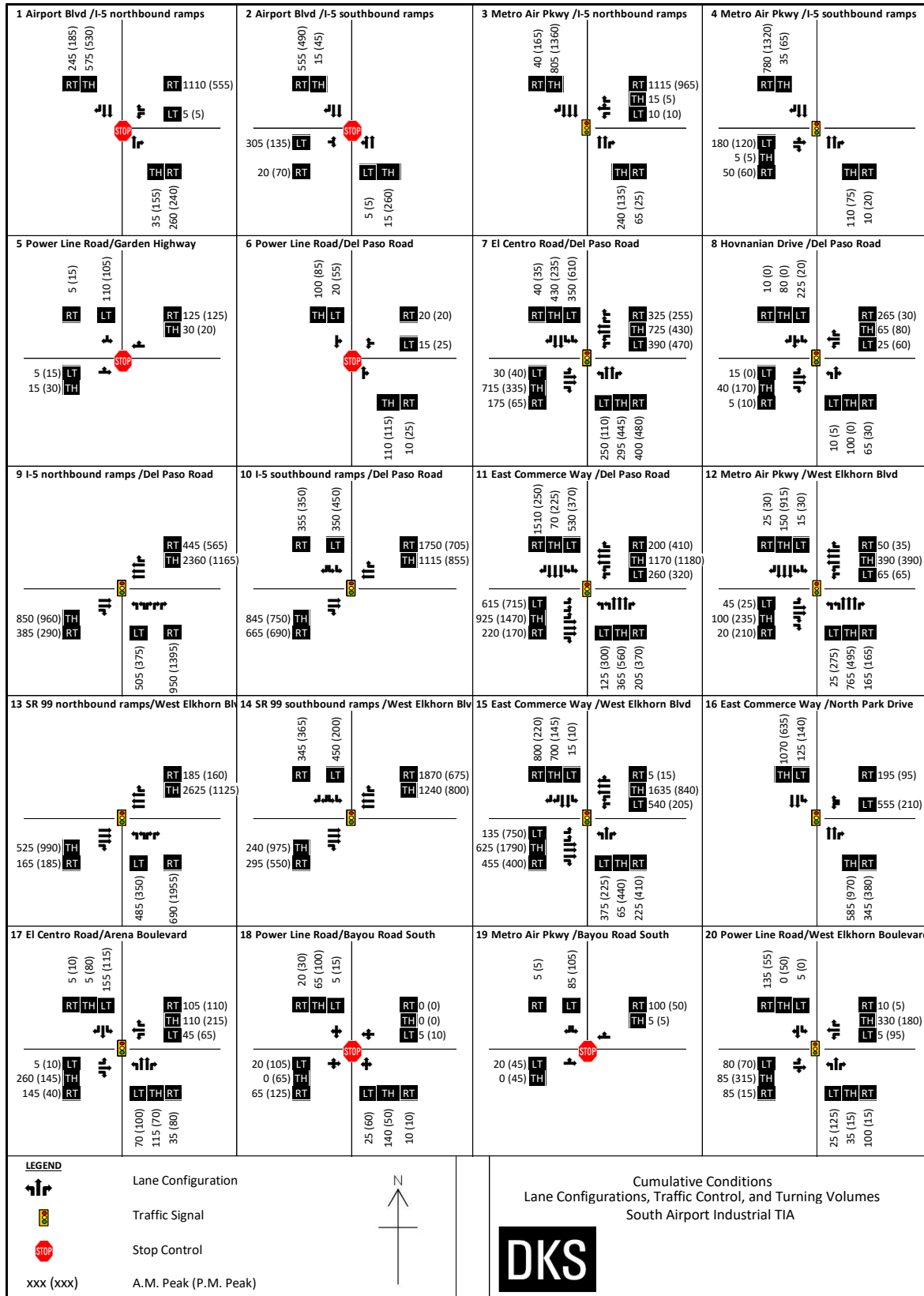


FIGURE 19. CUMULATIVE LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

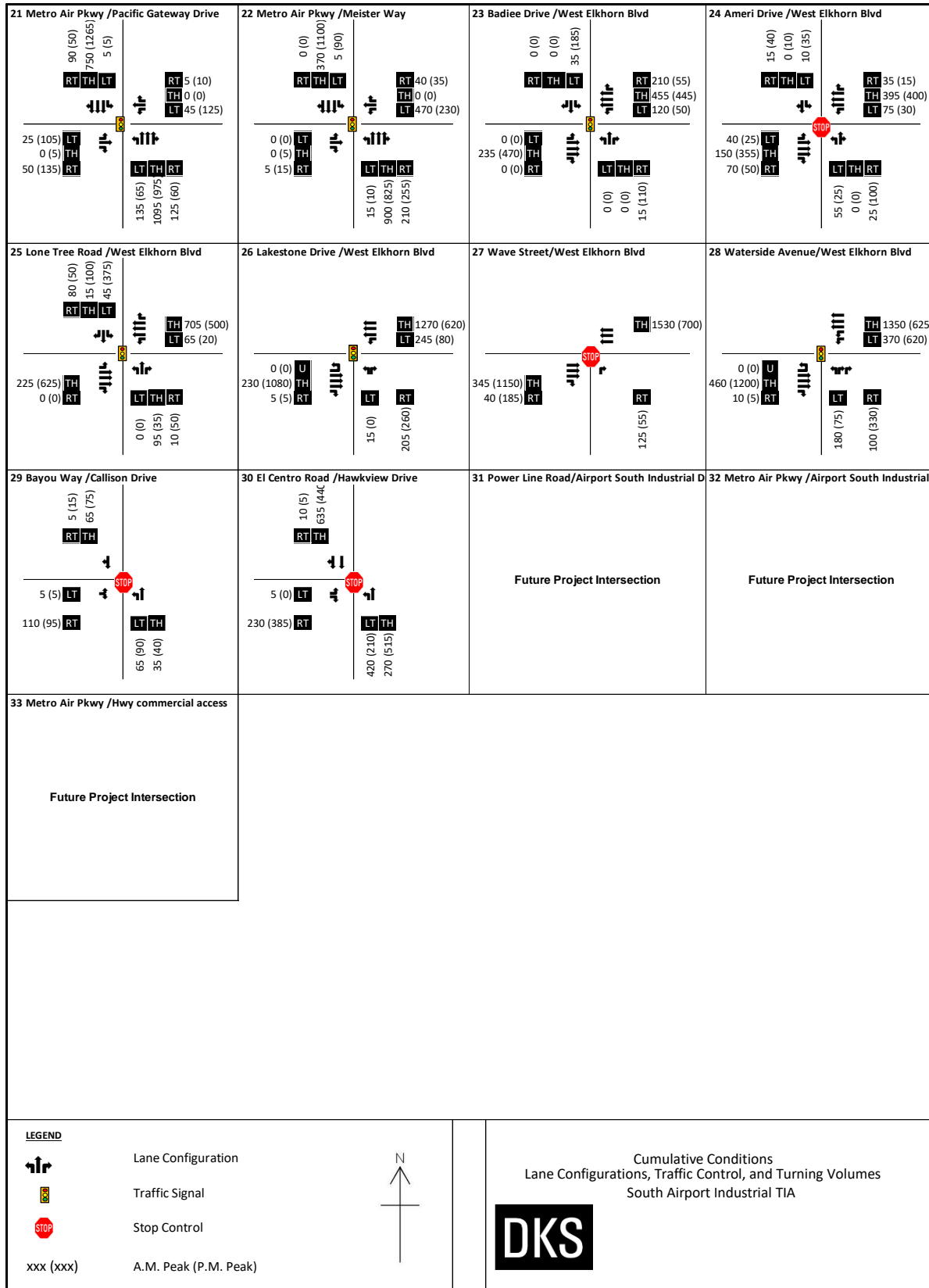


FIGURE 19. CUMULATIVE LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

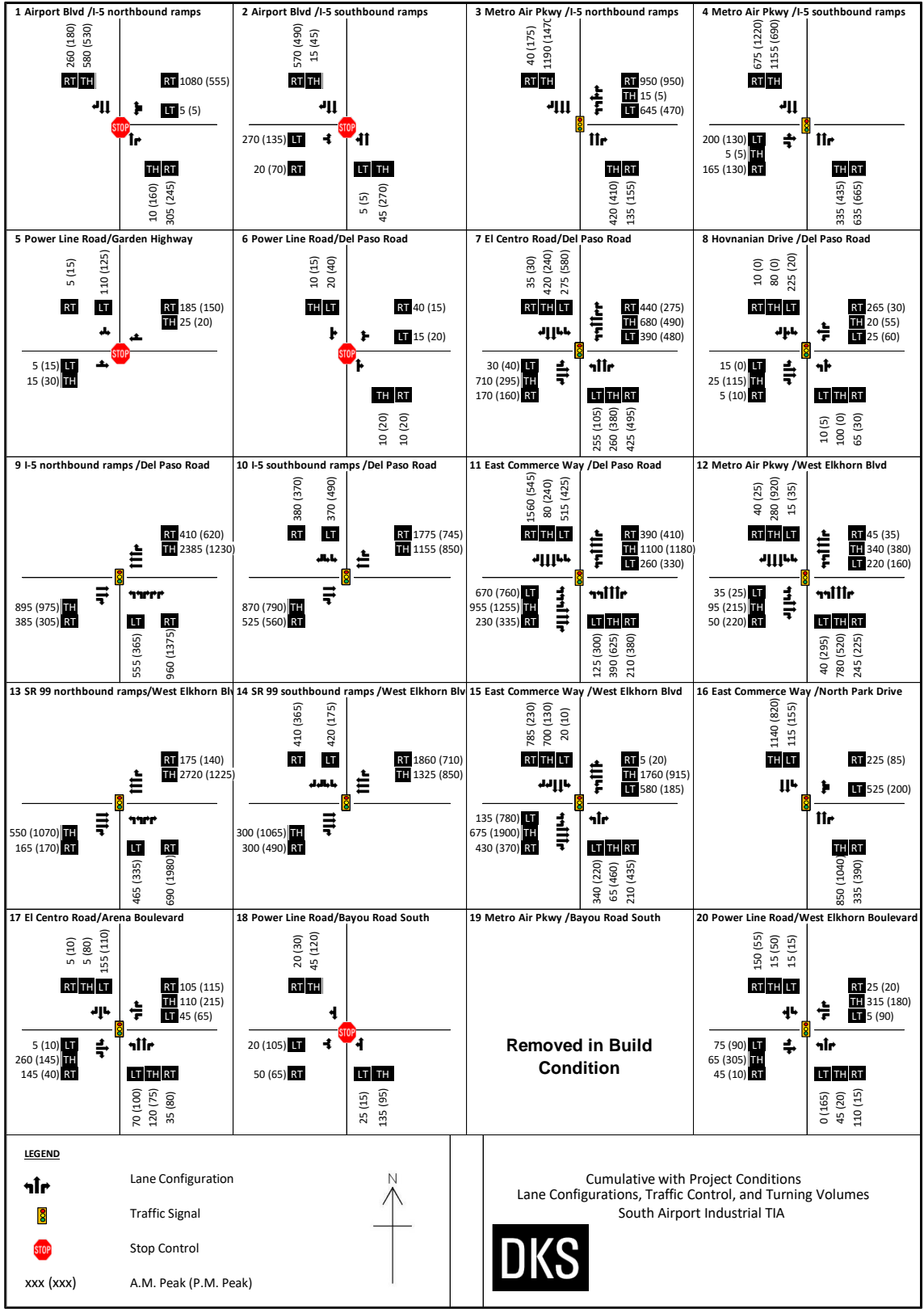


FIGURE 20. CUMULATIVE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

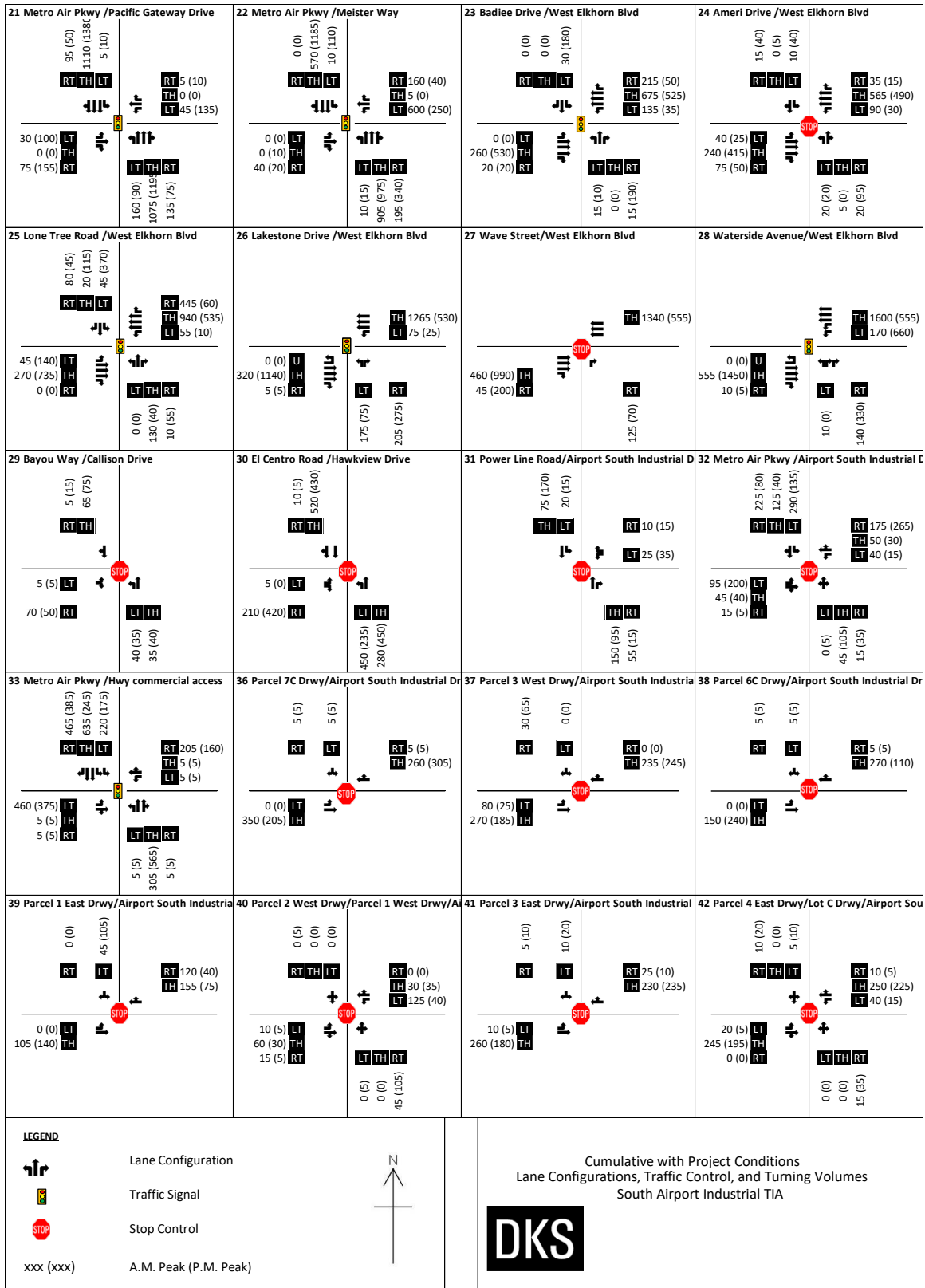


FIGURE 20. CUMULATIVE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

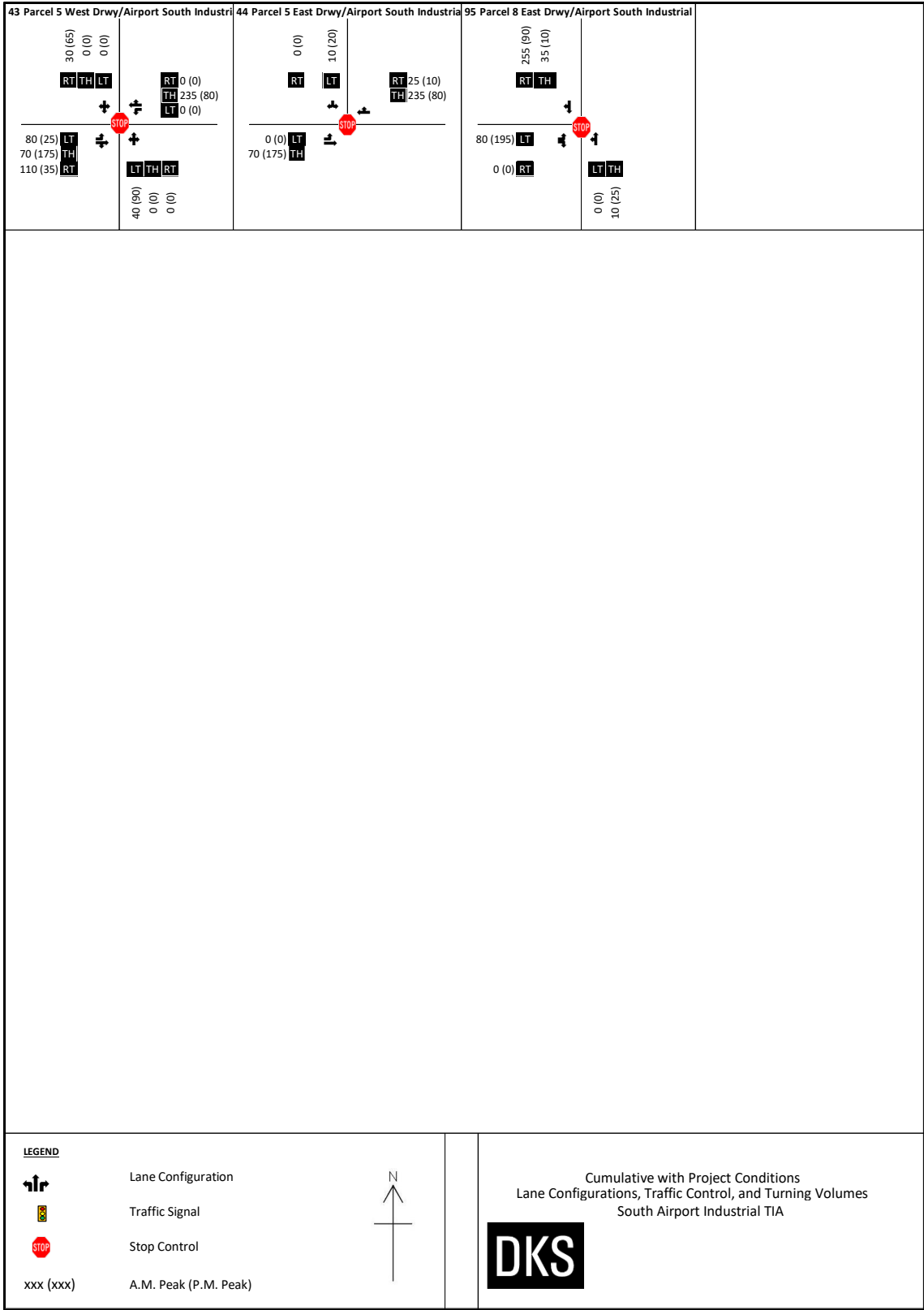


FIGURE 20. CUMULATIVE WITH PROJECT LANE CONFIGURATIONS, TRAFFIC CONTROL, & AM AND PM VOLUMES

INTERSECTION OPERATIONS ANALYSIS

The queuing and operations of the roadway infrastructure were analyzed under cumulative traffic conditions. **Table 16** summarizes the intersection operations analysis while **Table 17** and **Table 18** present the intersection queueing analysis for Cumulative and Cumulative with Project conditions respectively. **Appendices F** and **G** include the analysis details and worksheets.

Intersections not related to the project north of I-5 were assumed to be signalized by other development projects if they were likely to meet a peak hour signal warrant based on cumulative no project volumes. The interchange of Metro Air Parkway and I-5 was assumed to be built to its planned ultimate configuration from the plans developed by Metro Air Park including new signals and additional on-ramps. Some additional turn lanes at this interchange are necessitated by the project due to the addition of traffic south of I-5 which was not previously considered. Intersections which do not meet their respective jurisdictional operational standards are shaded in grey with bold text. Intersections which the project causes an operational deficiency at as defined in the "Thresholds of Significance" section of this report have their text shown in red.

For this analysis, queueing across multiple intersections was identified under both the cumulative project and cumulative no project conditions related to the ramp metering to the on-ramps to Caltrans facilities. These ramp meters may ultimately operate differently than was assumed for this analysis which would result in less queueing along Metro Air Parkway southbound and Del Paso Road approaching the interchange in both directions. The project contributes to queueing caused by these ramp meters.

The intersection of Del Paso Road and East Commerce Way is expected to serve a very high amount of volume in the cumulative scenarios and will be operating with several movements near or above capacity. This results in extensive queues and highly unstable flow patterns through the intersection. This queueing extends back through multiple intersections along Del Paso Road. Because of this unstable flow pattern, small changes in volumes result in large changes in delay and queueing. Intersections where the deficiency can be directly related back to this intersection are marked with an asterisk.

Based on this analysis, the project causes intersection delay deficiencies at the following intersections:

- 7. Del Paso and El Centro
- 9. Del Paso Road and I-5 Northbound Ramps*

In addition to these delay deficiencies, the project also causes or contributes to queueing deficiencies at the following locations:

- 7. El Centro Road and Del Paso Road
- 9. Del Paso Road and I-5 Northbound Ramps*
- 10. Del Paso Road and I-5 Southbound Ramps*
- 11. East Commerce Way and Del Paso Road*

Specific improvements for these locations will be identified as part of the project phasing and improvements funding plan. For the intersection of the Highway Commercial Access and Metro air Parkway, the southbound right turn pocket should be built to sufficient length to accommodate the queue and the throat depth on the western driveway should be increased by an amount to sufficiently accommodate the queue without causing blockages to internal site circulation.

In reviewing queueing on the Caltrans off-ramps, it was found that one location is expected to exceed the available queue storage in the cumulative no project condition: Del Paso Road and the I-5 Northbound Ramps. Other locations such as Del Paso Road and I-5 Southbound Ramps may exceed individual turn pocket storage but would not have queues extending back to the freeway. At Del Paso Road and the I-5 Northbound Ramps, the project contributes enough volume to increase the already deficient 95th percentile queues by several car lengths. These increases are primarily related to additional queue spillbacks from Del Paso Road and East Commerce Way.

TABLE 16. CUMULATIVE AND CUMULATIVE WITH PROJECT INTERSECTION OPERATION ANALYSIS

INTERSECTION	CUMULATIVE INTERSECTION OPERATING CONDITIONS					CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY(S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	TWSC	1.6 [7 - WBL]	A [A]	0.7 [9 - WBL]	A [A]	TWSC	1.6 [11.6 - WBL]	A [B]	0.6 [9.2 - WBL]	A [A]
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	TWSC	4.1 [4.6 - EBL]	A [A]	2.4 [5.5 - EBL]	A [A]	TWSC	4.1 [4.9 - EBL]	A [A]	2.4 [5.7 - EBL]	A [A]
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	Signal	13.8	B	45.9	D	Signal	12.9	B	39.1	D
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	Signal	10	B	13.7	B	Signal	10.1	B	12.3	B
5. GARDEN HIGHWAY AND POWER LINE ROAD	TWSC	1.9 [3.6 - SBL]	A [A]	2.3 [4.5 - SBL]	A [A]	TWSC	2 [3.8 - SBL]	A [A]	2.4 [4.8 - SBL]	A [A]
6. DEL PASO ROAD AND POWER LINE ROAD	TWSC	0.9 [4.2 - WBL]	A [A]	1.2 [4.6 - WBL]	A [A]	TWSC	0.6 [2.5 - WBL]	A [A]	0.7 [3.1 - WBL]	A [A]
7. DEL PASO ROAD AND EL CENTRO ROAD	Signal	42.1	D	54	D	Signal	36.8	D	60.0	E
8. DEL PASO ROAD AND HOVNANIAN DRIVE	Signal	13.9	B	6.5	A	Signal	13	B	6.5	A
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	Signal	54.7	D	43.0	D	Signal	106.5	F	79.5	E
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	Signal	18.6	B	19.6	B	Signal	15.8	B	39.5	D
11. DEL PASO ROAD AND EAST COMMERCE WAY	Signal	109.6	F	98.5	F	Signal	108.3	F	102.1	F
12. WEST ELKHORN BOULEVARD AND METRO AIR PARKWAY	Signal	11.7	B	42.5	D	Signal	12.3	B	21.3	C
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	Signal	36.8	D	29.9	C	Signal	36.2	D	32.9	C
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	Signal	9.3	A	9.8	A	Signal	9.4	A	9.7	A

INTERSECTION	CUMULATIVE INTERSECTION OPERATING CONDITIONS					CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY(S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
15. WEST ELKHORN BOULEVARD AND EAST COMMERCE WAY	Signal	This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans								
16. NORTH PARK DRIVE AND EAST COMMERCE WAY	Signal	19.3	B	11.2	B	Signal	19.9	B	12.2	B
17. ARENA BOULEVARD AND EL CENTRO ROAD	Signal	9.1	A	9.8	A	Signal	9.4	A	9.4	A
18. BAYOU ROAD SOUTH AND POWER LINE ROAD	TWSC	1.5 [4.7 - WBL]	A [A]	5.5 [11.2 - EBT]	A [B]	TWSC	1.4 [4.5 - EBL]	A [A]	3.5 [5.9 - EBL]	A [A]
19. BAYOU ROAD SOUTH AND METRO AIR PARKWAY	AWSC	3.9	A	4.7	A	Eliminated with Project				
20. POWER LINE ROAD AND WEST ELKHORN BOULEVARD	Signal	8.9	A	14.3	B	Signal	8.5	A	16.2	B
21. METRO AIR PARKWAY AND PACIFIC GATEWAY DRIVE	Signal	7.4	A	35.5	D	Signal	8.4	A	51	D
22. METRO AIR PARKWAY AND MEISTER WAY	Signal	14.6	B	13.9	B	Signal	19.9	B	20.2	C
23. WEST ELKHORN BOULEVARD AND BADIEE DRIVE	Signal	4.8	A	10.1	B	Signal	5.7	A	10.9 [27.6 - WBL]	B [D]
24. WEST ELKHORN BOULEVARD AND AMERI DRIVE	TWSC	2.2 [9 - NBL]	A [A]	3.2 [14.2 - SBT]	A [B]	TWSC	1.9 [13.7 - NBT]	A [B]	2.7 [12.7 - SBT]	A [B]
25. WEST ELKHORN BOULEVARD AND LONE TREE ROAD	Signal	10.3	B	20.3	C	Signal	12.2	B	20.4	C

INTERSECTION	CUMULATIVE INTERSECTION OPERATING CONDITIONS					CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY(S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
26. WEST ELKHORN BOULEVARD AND LAKESTONE DRIVE	Signal	7.3	A	11.7	B	Signal	9.4	A	10.7	B
27. WEST ELKHORN BOULEVARD AND WAVE STREET	TWSC	2.4 [4.5 - NBR]	A [A]	3.0 [8.2 - NBR]	A [A]	TWSC	2.1 [5.3 - NBR]	A [A]	2.8 [6.4 - NBR]	A [A]
28. WEST ELKHORN BOULEVARD AND WATERSIDE AVENUE	Signal	11.9	B	24.9	C	Signal	5.6	A	26.8	C
29. BAYOU WAY AND CALLISON DRIVE	AWSC	3.3	A	3.0	A	AWSC	3.2	A	2.6	A
30. EL CENTRO ROAD AND HAWKVIEW DRIVE	TWSC	6.6 [72 - EBL]	A [F]	67.3 [319.4 - EBR]	F [F]	TWSC	4.9 [54.1 - EBL]	A [F]	47.2 [154.4 - EBR]	E [F]
31. AIRPORT SOUTH INDUSTRIAL DRIVE AND POWER LINE ROAD		Project Only Intersection				TWSC	0.8 [5.2 - WBL]	A [A]	1.2 [4.9 - WBL]	A [A]
32. AIRPORT SOUTH INDUSTRIAL DRIVE AND METRO AIR PARKWAY		Project Only Intersection				AWSC	9.6	A	7.4	A
33. HIGHWAY COMMERCIAL ACCESS AND METRO AIR PARKWAY		Project Only Intersection				Signal	20.9	C	20.2	C
36. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 7C DRIVEWAY		Project Only Intersection				TWSC	1.2 [4.4 - SBL]	A [A]	1.1 [6.1 - SBL]	A [A]
37. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 3 WEST DRIVEWAY		Project Only Intersection				TWSC	0.8 [3.2 - SBR]	A [A]	0.9 [3.6 - SBR]	A [A]

INTERSECTION	CUMULATIVE INTERSECTION OPERATING CONDITIONS				CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS					
	CONTROL	AM PEAK HOUR		PM PEAK HOUR		CONTROL	AM PEAK HOUR		PM PEAK HOUR	
		DELAY(S)	LOS	DELAY (S)	LOS		DELAY (S)	LOS	DELAY (S)	LOS
38. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 6C DRIVEWAY		Project Only Intersection				TWSC	0.6 [10.9 - SBL]	A [B]	0.6 [4.4 - SBL]	A [A]
39. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 1 EAST DRIVEWAY		Project Only Intersection				TWSC	0.9 [5.5 - SBL]	A [A]	1.7 [5.3 - SBL]	A [A]
40. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 2 WEST DRIVEWAY/PARCEL 1 WEST DRIVEWAY		Project Only Intersection				TWSC	1.3 [2.6 - NBR]	A [A]	1.9 [5.9 - NBL]	A [A]
41. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 3 EAST DRIVEWAY		Project Only Intersection				TWSC	0.5 [5.9 - SBL]	A [A]	0.5 [5.2 - SBL]	A [A]
42. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 4 EAST DRIVEWAY/LOT C DRIVEWAY		Project Only Intersection				TWSC	0.6 [6.9 - SBL]	A [A]	0.7 [6 - SBL]	A [A]
43. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 5 WEST DRIVEWAY		Project Only Intersection				TWSC	1.4 [6.9 - NBL]	A [A]	2.3 [6.7 - NBL]	A [A]
44. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 5 EAST DRIVEWAY		Project Only Intersection				TWSC	0.7 [5.2 - SBL]	A [A]	1.2 [4.4 - SBL]	A [A]
95. AIRPORT SOUTH INDUSTRIAL DRIVE & PARCEL 8 EAST DRIVEWAY		Project Only Intersection				AWSC	5.1	A	4.0	A

Key: [Worst stop-controlled delay] for TWSC intersections

Notes:

Black bolded results indicate an operational deficiency.

Red bolded results indicate an operational deficiency either caused by or exacerbated by the project.

TABLE 17. CUMULATIVE INTERSECTION QUEUE ANALYSIS

CUMULATIVE INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	WBL	1,350	20	20
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,375	75	65
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	WBL	1,575	85	40
	WBT/WBR	1,575	280	250
	WBR	170	260	200
	NBT	875	95	70
	SBT	700	390	700
	SBR	225	130	485
	EBL/EBT	1,600	95	85
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	EBR	200	60	65
	NBT	450	40	40
	NBR	200	15	20
	SBT	840	50	275
	SBR	840	70	335
	EBR	140	195	60
7. EL CENTRO ROAD & DEL PASO ROAD	WBL	205	190	260
	NBL	280	340	155
	NBR	160	50	120
	SBL	285	415	380
	SBT	875	480	540
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	NBL	1,270	1905	1200
	NBR	1,270	1845	1270
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	SBL	1,100	150	295
	SBR	200	185	250
11. EAST COMMERCE WAY & DEL PASO ROAD	EBL	375	550	530
	EBT	685	890	865

CUMULATIVE INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
	EBR	205	260	410
	WBL	235	245	295
	WBR	140	295	285
	NBL	245	165	395
	NBR	145	125	230
	SBL	285	455	355
	SBR	300	390	40
12. METRO AIR PARKWAY & WEST ELKHORN BOULEVARD	WBL	350	80	85
	NBL	400	50	280
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	NBL	1,525	330	1455
	NBR	420	145	325
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	SBL	1,480	115	90
	SBR	400	130	175
15. EAST COMMERCE WAY & WEST ELKHORN BOULEVARD	EBL	250	115	305
	EBR	250	195	310
	WBL	200	350	210
	NBR	200	205	275
	SBR	200	230	105
16. EAST COMMERCE WAY & NORTH PARK DRIVE	WBL	275	365	135
22. METRO AIR PARKWAY & MEISTER WAY	WBL	200	240	190
28. WATERSIDE AVENUE & WEST ELKHORN BOULEVARD	NBL	150	140	105

Notes:

Black bolded results indicate an operational deficiency.
 Values rounded up to the nearest multiple of five.

TABLE 18. CUMULATIVE WITH PROJECT INTERSECTION OPERATION ANALYSIS

CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS				
INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
1. AIRPORT BLVD AND I-5 NORTHBOUND RAMPS	WBL	1,350	20	20
2. AIRPORT BLVD AND I-5 SOUTHBOUND RAMPS	EBL/EBR	1,375	75	70
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	WBL	1,575	245	185
	WBT/WBR	1,575	190	255
	WBR	170	175	220
	NBT	875	135	145
	SBT	700	240	705
	SBR	225	35	460
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	EBL/EBT	1,600	145	120
	EBR	200	115	100
	NBT	450	80	105
	NBR	200	165	140
	SBT	840	275	465
	SBR	840	45	360
7. EL CENTRO ROAD & DEL PASO ROAD	EBR	140	190	145
	WBL	205	195	260
	NBL	280	410	160
	NBR	160	60	215
	SBL	285	200	445
	SBT	875	185	645
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS	NBL	1,270	2795	2110
	NBR	1,270	2960	2200
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS	SBL	1,100	165	365
	SBR	200	210	305
11. EAST COMMERCE WAY & DEL PASO ROAD	EBL	375	550	515

CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS

INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
	EBT	685	875	860
	EBR	205	300	390
	WBL	235	245	355
	WBR	140	300	280
	NBL	245	155	355
	NBR	145	125	240
	SBL	285	350	450
	SBR	300	395	160
12. METRO AIR PARKWAY & WEST ELKHORN BOULEVARD	WBL	350	135	125
	NBL	400	70	200
13. WEST ELKHORN BOULEVARD AND SR 99 NORTHBOUND RAMPS	NBL	1,525	330	1,465
	NBR	420	155	330
14. WEST ELKHORN BOULEVARD AND SR 99 SOUTHBOUND RAMPS	SBL	1,480	125	80
	SBR	400	135	180
15. EAST COMMERCE WAY & WEST ELKHORN BOULEVARD	EBL	250	150	305
	EBR	250	210	425
	WBL	200	405	235
	NBR	200	190	275
	SBR	200	235	110
16. EAST COMMERCE WAY & NORTH PARK DRIVE	WBL	275	355	150
	EBL	-	275	250
33. HIGHWAY COMMERCIAL ACCESS AND METRO AIR PARKWAY	EBT/EBR	-	105	45
	WBL	-	30	25
	WBT/WBR	-	145	115
	NBL	-	20	25
	NBT	350	85	180

CUMULATIVE WITH PROJECT INTERSECTION OPERATING CONDITIONS

INTERSECTION	TURNING MOVEMENT	STORAGE LENGTH (FEET)	95TH PERCENTILE QUEUE (FEET)	
			AM PEAK HOUR	PM PEAK HOUR
	NBT/NBR	-	180	295
	SBL	-	150	115
	SBT	550	240	115
	SBR	-	185	140

Notes:

Black bolded results indicate an operational deficiency.

Red bolded results indicate an operational deficiency either caused by or exacerbated by the project.

Values rounded up to the nearest multiple of five.

SEGMENT OPERATIONS ANALYSIS

As seen in **Table 19**, only one segment, El Centro Road from Hawkview Drive to Bayou Way, is expected to have an operational deficiency in Cumulative and Cumulative with Project conditions. The project reduces volumes on this particular segment with the construction of Airport South Industrial providing a viable alternate route over the existing Bayou Way which is constructed to a minor rural road standard.

TABLE 19: CUMULATIVE SEGMENT RESULTS SUMMARY

ROADWAY	EXTENTS	JURISDICTION	CUMULATIVE			CUMULATIVE WITH PROJECT		
			Type/ Lanes	Count	LOS	Type/ Lanes	Count	LOS
METRO AIR PARKWAY	I-5 to Pacific Gateway Drive	County	Arterial L 4	28,440	E	Arterial L 4	29,760	E
METRO AIR PARKWAY	Pacific Gateway Drive to Meister Way	County	Arterial L 4	28,000	E	Arterial L 4	29,260	E
METRO AIR PARKWAY	Meister Way to Elkhorn Boulevard	County	Arterial L 4	23,480	C	Arterial L 4	23,920	C
WEST ELKHORN BOULEVARD	Lone Tree Road to Badiee Drive	County	Arterial L 4	17,550	A	Arterial L 4	17,870	A
POWER LINE ROAD	Garden Highway to Del Paso Road	County	Arterial M 2	3,010	A	Arterial M 2	3,520	A
POWER LINE ROAD	Bayou Road to Del Paso Road	County	Arterial M 2	3,970	A	Arterial M 2	4,650	A
POWER LINE ROAD	Bayou Road to Pacific Gateway Drive	County	Arterial M 2	2,560	A	Arterial M 2	2,670	A
POWER LINE ROAD	West Elkhorn Boulevard to Pacific Gateway Drive	County	Arterial M 2	2,180	A	Arterial M 2	2,280	A
DEL PASO ROAD	Power Line Road to Hovnanian Drive	County	Arterial M 2	1,830	A	Arterial M 2	1,940	A
EL CENTRO ROAD	Del Paso Road to Hawkview Drive	City	Arterial L 2	20,750	F	Arterial L 2	18,810	F
EL CENTRO ROAD	Hawkview Drive to Bayou Way	City	Arterial L 2	13,040	D	Arterial L 2	10,700	C
GARDEN HIGHWAY	Power Line Road to Radio Road	County	Arterial M 2	3,260	A	Arterial M 2	3,780	A
GARDEN HIGHWAY	Radio Road to San Juan Road	County	Arterial M 2	4,060	A	Arterial M 2	4,430	A

ROADWAY	EXTENTS	JURISDICTION	CUMULATIVE			CUMULATIVE WITH PROJECT		
			Type/ Lanes	Count	LOS	Type/ Lanes	Count	LOS
GARDEN HIGHWAY	San Juan Road to City Limit	County	Arterial M 2	2,000	A	Arterial M 2	2,130	A
METRO AIR PARKWAY	I-5 to Airport South Industrial Drive	City		-		Arterial L 4	15,630	A
AIRPORT SOUTH INDUSTRIAL DRIVE	Power Line Road to Metro Air Parkway	City		-		Arterial L 2	5,610	A
AIRPORT SOUTH INDUSTRIAL DRIVE	Metro Air Parkway to "A" Drive	City		-		Arterial L 2	9,650	A
"A" DRIVE	Airport South Industrial Drive to Bayou Way	City		-		Arterial L 2	5,000	A
BAYOU WAY	A Drive to El Centro Road	City	Arterial L 2	6,890	A	Arterial L 2	8,600	A

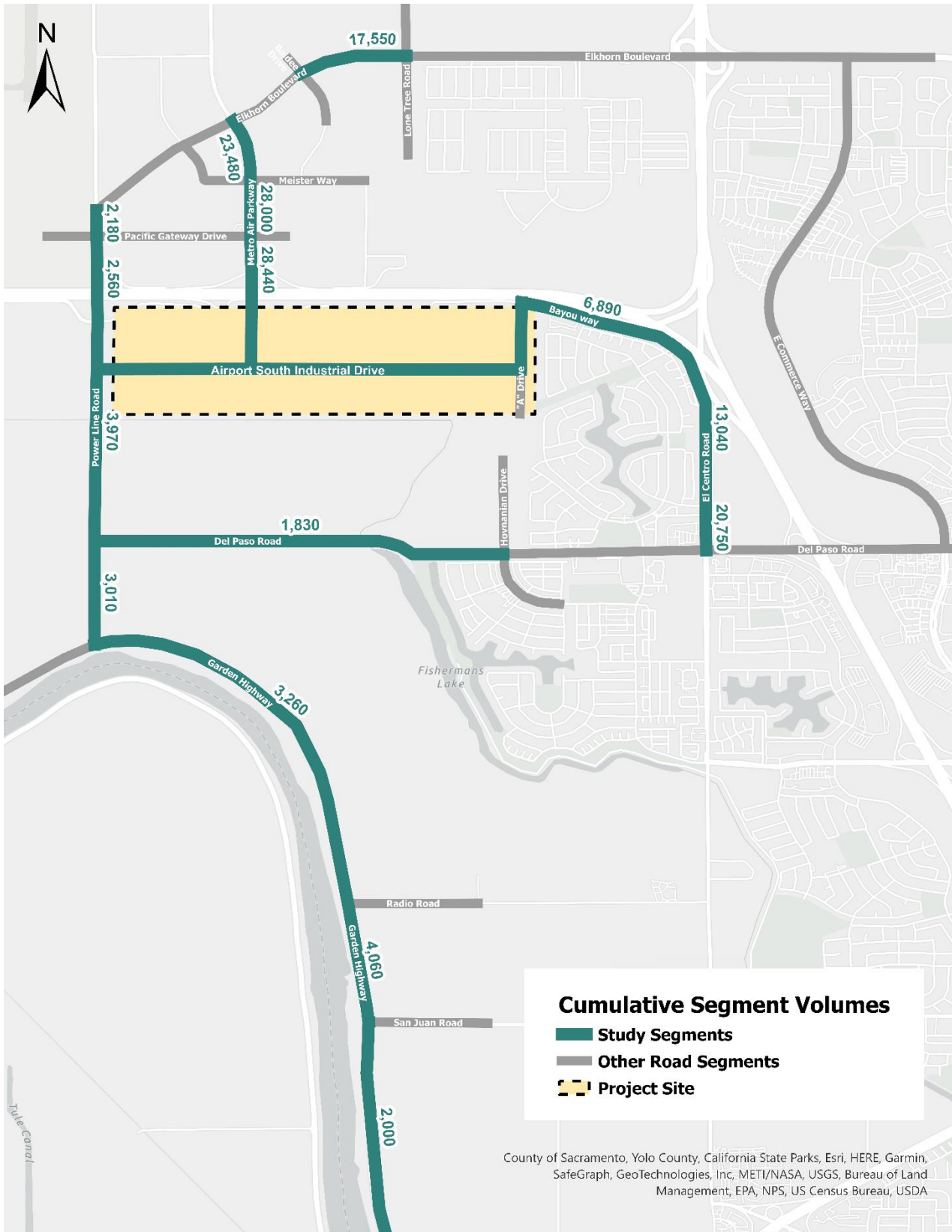
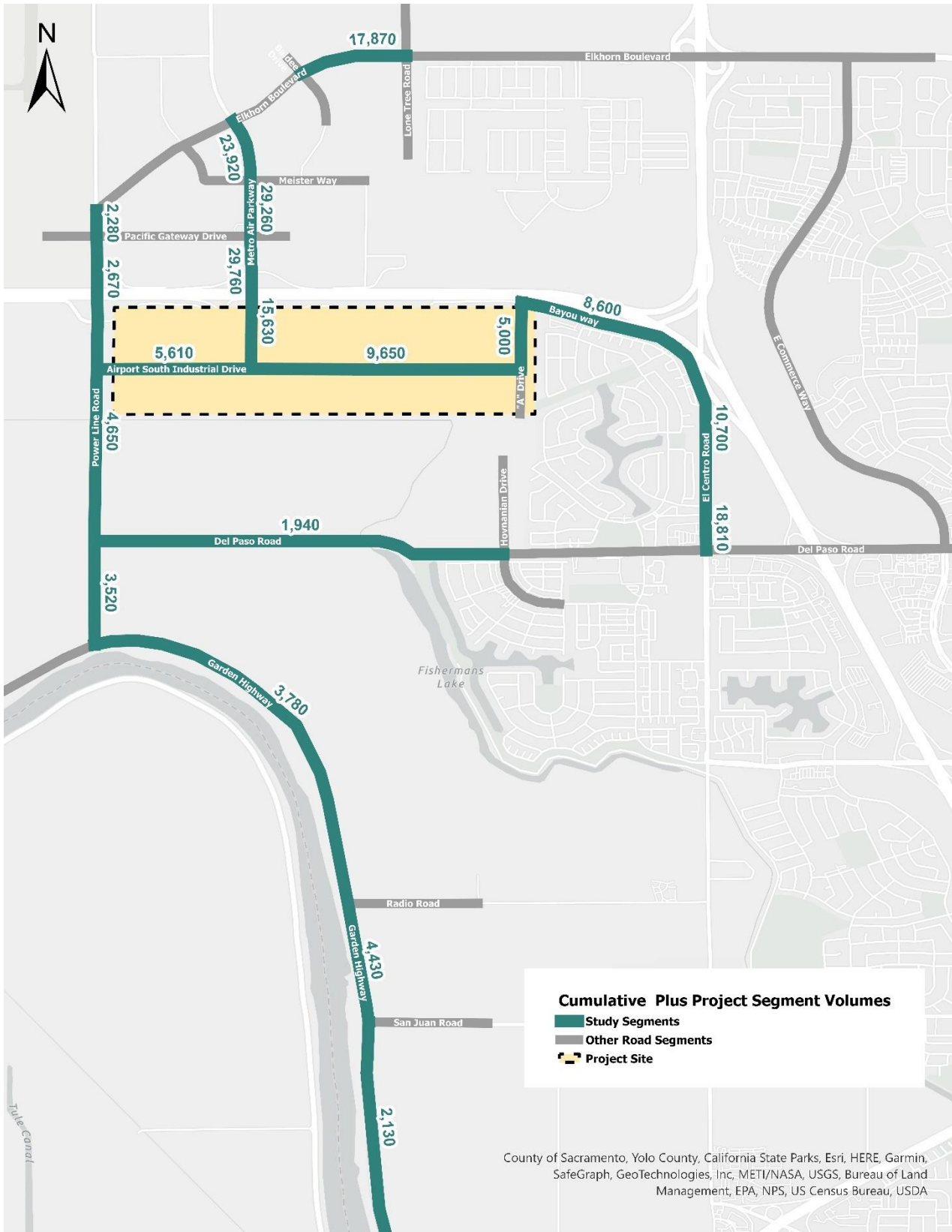


FIGURE 21: CUMULATIVE SEGMENT VOLUMES



County of Sacramento, Yolo County, California State Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

FIGURE 22: CUMULATIVE WITH PROJECT SEGMENT VOLUMES

CIRCULATION GUIDELINES REVIEW

This section includes review of the project’s on-site circulation and its interface with the public travel network. This section in particular focuses on the driveway spacing, throat length, traffic control, and queueing to ensure compliance with City standards. Additionally, this section reviews the proposed pedestrian, bicycle, and transit access to the site.

DRIVEWAY CONTROL TYPE AND SPACING

The review of intersection spacing is based upon traffic engineering principles to maintain efficient movement for motorized vehicles, pedestrians, and bicyclists, and minimize conflicts and crashes. Research has shown that proper spacing of intersections and driveways reduces crash frequency, as motorists have ample time between decision points to react to other vehicles that may affect their movement.

The City of Sacramento has minimum intersection spacing for each street designation, with increased spacing for roadways intended for higher traffic volumes. Table 15.7.3 of the *Design and Procedures Manual, Section 15 – Street Design Standards* notes that intersection spacing is measured between the nearest curb returns on the through street.

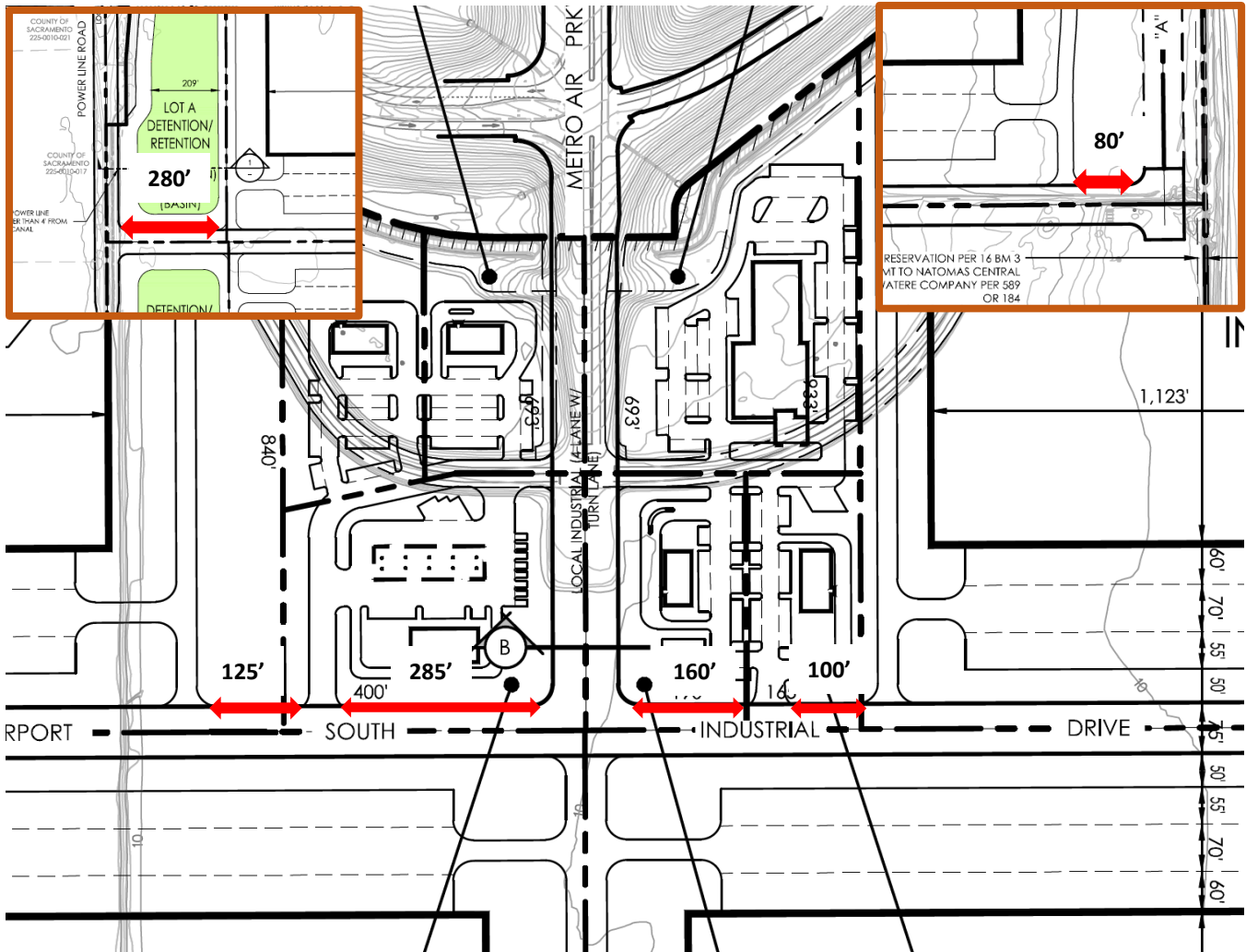


FIGURE 23: AIRPORT SOUTH INDUSTRIAL DRIVE INTERSECTION SPACING

Airport South Industrial Drive would be classified as a Local Industrial roadway; therefore, intersection spacing of at minimum 120 feet is required. As seen in **Figure 23**, the proposed intersection spacing from west to east is 280 feet, 125 feet, 285 feet, 160 feet, 100 feet, and 80 feet. All but two of these distances is greater than 120 feet; therefore, it is recommended that the spacing is increased between both intersection pairs which do not meet the standard. If this cannot be achieved, driveway consolidation should be considered for driveways which are too closely spaced. Additionally, for safety along Airport South Industrial Drive, it is recommended that driveways be kept at least 200 feet from intersections of local roadways at Power Inn Road, Metro Air Parkway, and "A" Drive. This will require relocation of driveways at Parcels 1, 2, 5, 7, and potentially 3 depending on the revised site plan.

DRIVEWAY THROAT LENGTHS

The "throat length" of a driveway is defined as the distance from the outer edge of the traveled way of the intersecting roadway to the first point along the driveway at which there are conflicting vehicular traffic movements. Conflicting movements include turning vehicles and vehicles

entering/exiting parking stalls. Adequate throat length is critical to ensure that queued exiting vehicles do not interfere with/block entering vehicles, resulting in entering queues extending onto city sidewalks and/or streets.

Trucks will access the development primarily via the Metro Air Parkway. Autos are expected to also use Metro Air Parkway in addition to Powerline Road and South Bayou Way. Trucks will be prohibited from accessing the site via South Bayou Way, as denoted on the site plan.

Minimum Throat Depths: Airport South Industrial Drive - Existing traffic volumes and queuing on Airport South Industrial Drive are such that vehicles exiting the proposed project will experience a minimal delay. A minimum throat length of 75 feet is recommended at each driveway to allow for the potential size of trucks accessing the site. Based upon the site plan as shown in **Figure 24**, the proposed driveways' throat lengths all exceed the minimum recommended throat length except for the driveway from the eastern commercial developments onto Airport South Industrial Drive. This driveway shows a throat length of approximately 35 feet and should be increased to the minimum recommendation of 75 feet.

Minimum Throat Depths: Metro Air Parkway - Based on the Cumulative with Project queueing results, there is potential for 95th percentile queues to exceed 250 feet on the eastbound approach of Metro Air Parkway and the signalized commercial access. It is recommended to increase the throat depth on this approach to minimize the impacts this queue might have on circulation within the commercial lot.

If proposed industrial uses include access gates, the applicants shall provide a queueing analysis demonstrating that inbound queued vehicles can be accommodated on-site without queuing onto City streets and sidewalks. Consideration should be given to the arrival of heavy vehicles during time periods when access may not be permitted. Heavy vehicles shall not be permitted to park / queue on City streets while awaiting access.

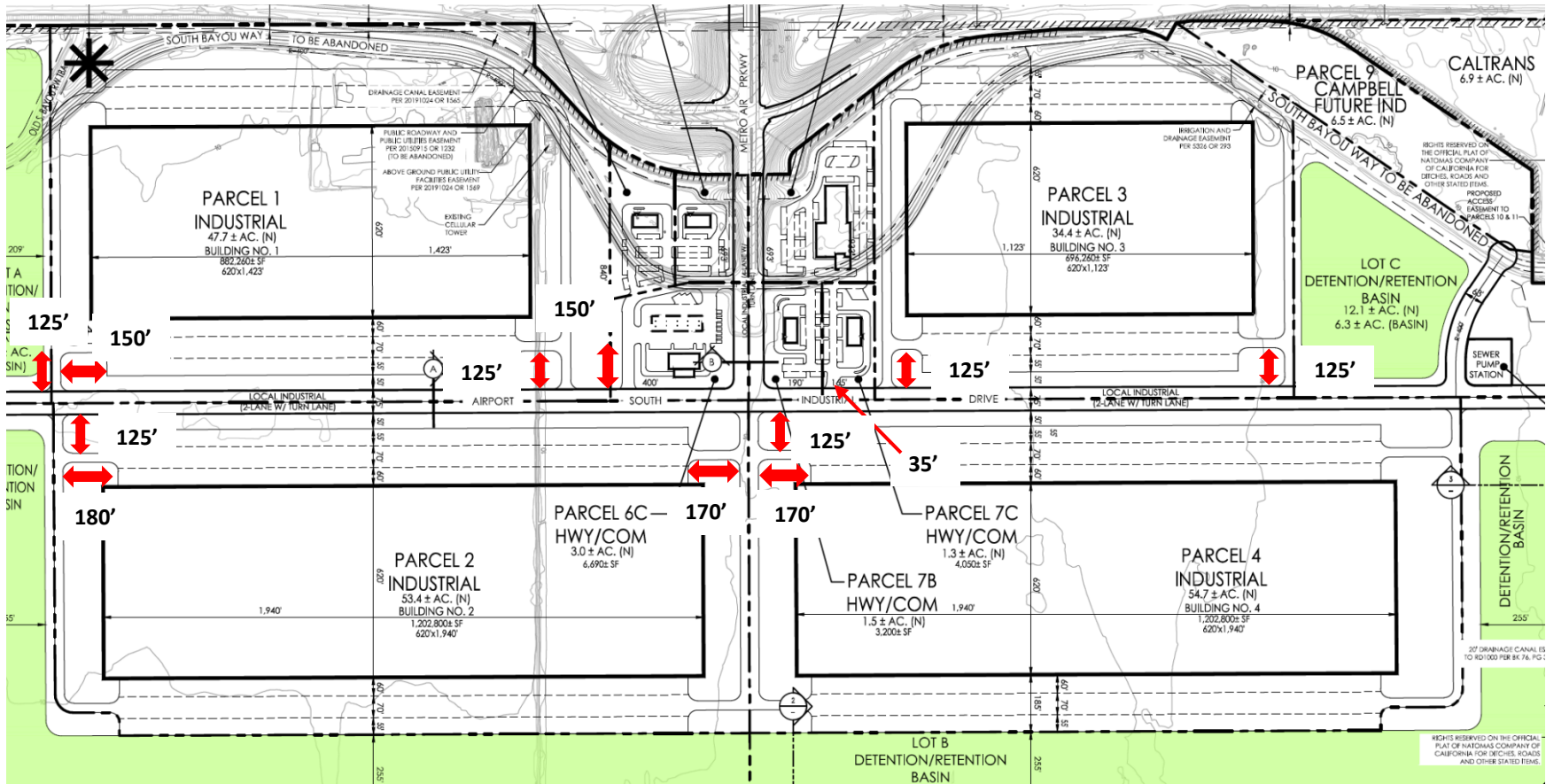


FIGURE 24. SITE PLAN THROAT LENGTH DIMENSIONS

BICYCLE ACCESS

The site is located on undeveloped greenfield which does not connect to existing bicycle facilities. Bicycle lanes should be provided along site frontage as a minimum. It is recommended that a separated bikeway be accommodated along Airport South Industrial to separate cyclists from heavy vehicle traffic and encourage non-motorized travel to and from the site for employees. This would enhance safety and contribute towards project VMT mitigations.

The existing site design does not illustrate where planned bicycle facilities would be on-site. However, bicycle facilities should be accommodated within the proposed cross section to provide separation between cyclists and heavy truck traffic.

The bicycle network shall be connected to the existing and planned City and County bikeway system, including, but not limited to, Bayou Way at the northeast corner of the site, the Class I bikeway at the southeast corner of the site, and Metro Air Parkway north of I-5. The City bikeway master plan shows an off street Class IV cycle track on the eastern side of the site. This is not shown in the current site plan and must be accommodated in the proposed plans.

PEDESTRIAN ACCESS

The site is located on undeveloped greenfield which does not connect to existing pedestrian facilities. Sidewalks should be provided along site frontage. The project would not interfere with existing or planned pedestrian facilities.

TRUCK ACCESS

Heavy vehicle access to the site will be via Metro Air Parkway and Power Line Road. Trucks should be disallowed, through developer agreement, from using Bayou Way to access the site. Sufficient signage should be placed along Airport South Industrial, "A" Drive, and Bayou Way to indicate that trucks are disallowed from exiting the site to the east. As the site plan is developed, the applicant shall show using vehicle turning templates that design vehicles can be safely and efficiently accommodated at driveway entrances without off-tracking (encroaching) into adjacent lanes.

As trucks will be prohibited to travel east of the project along Bayou Way, the proposed roundabout at this location will be required to be designed to allow for truck turnaround to return to the I-5 interchange at Metro Air Parkway. Turn templates showing this design requirement has been met should be provided to the City for design review.

It is understood that the proposed project has preliminary designs for a roundabout at the Bayou Way site access. Any proposed design is expected to be reviewed by City Staff for compliance with NCHRP 1043.

DEFICIENCIES AND RECOMMENDATIONS

A table summarizing project related operational deficiencies for baseline and cumulative scenarios is provided in **Table 20** and **Table 21**, respectively. The following section describes the operational deficiencies and recommendations.

OPERATIONAL DEFICIENCY 1:

The proposed project contributes to operational deficiencies at the following intersections in the baseline conditions to a sufficient degree to require improvements at the following intersections:

- Metro Air Parkway and I-5 Northbound Ramp (Study Intersection #3)
- Metro Air Parkway and I-5 Southbound Ramp (Study Intersection #4)
- Del Paso Road and El Centro Road (Study Intersection #7)
- Del Paso Road and East Commerce Way (Study Intersection #11)
- Metro Air Parkway and West Elkhorn Boulevard (Study Intersection #12)

The project should contribute a fair share towards improvement of these intersections, many of which have planned improvements unrelated to the project which will be required in the cumulative conditions.

For the Commercial Access and Metro Air Parkway (Study Intersection #33), project traffic necessitates a signal. The project should address internal site circulation from the intersection so that drive aisles do not become regularly blocked by the back of queue and provide adequate storage lengths to meet demand expected under the Cumulative with Project scenario. It is assumed that this intersection will be built out to operational standard.

OPERATIONAL RECOMMENDATION 1:

The project should contribute a fair share contribution towards improvement of these intersections as most of them have planned improvements which will be required in the cumulative condition.

The phasing and feasibility of all improvements will be determined in a separate report.

OPERATIONAL DEFICIENCY 2:

The proposed project contributes to operational deficiencies at the following intersections in the cumulative conditions. These deficiencies are related to either queue spillback of greater than one car length beyond the available storage and/or not meeting City/County Level of Service standards:

- Metro Air Parkway and I-5 Northbound Ramps (Study Intersection #3)
- Metro Air Parkway and I-5 Southbound Ramps (Study Intersection #4)
- El Centro Road and Del Paso Road (Study Intersection #7)
- Del Paso Road and I-5 Northbound Ramps (Study Intersection #9)*
- Del Paso Road and I-5 Southbound ramps (Study Intersection #10)*
- Del Paso Road and East Commerce Way (Study Intersection #11)*

**Deficiencies are related to queues at Del Paso Road and East Commerce Way*

As previously noted, there are significant queue spillbacks on Del Paso Road which spill into the interchange with I-5. These are all related to queues spilling back from the Del Paso Road and East Commerce Way intersection which will be operating near or over capacity across most movements during the peak hours. The project contributes a relatively small amount of traffic volume to this area compared to the total volume served in the cumulative condition and thus should only contribute a share to future improvements.

For intersections on Airport South Industrial Drive and Metro Air Parkway, the project should address driveway spacing from the intersection so that driveways do not become regularly blocked by the back of queue and provide adequate storage lengths to meet demand expected under the Cumulative with Project scenario.

For Metro Air Parkway and Commercial Site Access (Intersection #33) it is assumed that this intersection will be built out to operational standard with adequate storage lengths to meet demand.

OPERATIONAL RECOMMENDATION 2:

The project should contribute towards the extension of turn pockets where possible at these locations. The project should contribute a fair share percentage towards the improvement of the Metro Air Parkway and I-5 Interchange to its ultimate configuration. The intersection of Metro Air Parkway and the Commercial Site Access has queueing on the southbound right and eastbound left movements. These queueing concerns can be addressed by extending the southbound right turn pocket and by either increasing the throat depth of the eastbound approach, or by providing dual eastbound left turn lanes. This location should be constructed to provide adequate storage for these queues.

Some of the driveways on Airport South Industrial Drive need to be relocated and possibly consolidated to meet design standards of 120 ft spacing. Depending on how this is done, newly consolidated driveways on Airport South Industrial Drive may meet all way stop control or signal warrants in which case they should be located with at least 500 ft spacing from other fully controlled intersections. Driveway throat depth and driveway spacing will need to be further reviewed prior to building development to ensure consistency with City standards.

The phasing of all improvements will be determined in a separate report.

OPERATIONAL RECOMMENDATION 3:

Minimum Throat Depths: Airport South Industrial Drive - A minimum throat length of 75 feet is recommended at each driveway to allow for the potential size of trucks accessing the site. Based upon the site plan as shown in **Figure 24**, the proposed driveways' throat lengths all exceed the minimum recommended throat length except for the driveway from the eastern commercial developments onto Airport South Industrial Drive. This driveway shows a throat length of approximately 35 feet and should be increased to the minimum recommendation of 75 feet.

Minimum Throat Depths: Metro Air Parkway - Based on the Cumulative with Project queueing results, there is potential for 95th percentile queues to exceed 250 feet on the eastbound approach of Metro Air Parkway and the signalized commercial access. It is recommended to increase the throat depth on this approach to minimize the impacts this queue might have on circulation within the commercial lot.

If proposed industrial uses include access gates, the applicants shall provide a queueing analysis demonstrating that inbound queued vehicles can be accommodated on-site without queueing onto City streets and sidewalks. Consideration should be given to the arrival of heavy vehicles during time periods when access may not be permitted. Heavy vehicles shall not be permitted to park / queue on City streets while awaiting access.

ACTIVE TRANSPORTATION DEFICIENCY 1:

The proposed project would not adversely affect existing or planned pedestrian or bicycle facilities. The project is in a greenfield area where these facilities do not currently exist.

The existing site design does not illustrate where planned bicycle facilities would be on-site, but it is assumed that sidewalks and bicycle facilities will be provided per City standards.

Additionally, the site plan does not currently show the planned Class IV cycle track on the east side of the site, which is in the City's master bicycle network. This path should be shown and accommodated in the site plan.

ACTIVE TRANSPORTATION RECOMMENDATION 1:

The project should construct pedestrian and bicycle facilities along its frontage to City Standards. It is recommended that the provision of Class IV separated bicycle facilities should be explored due to the mix of cyclists and heavy truck traffic on an industrial roadway.

TABLE 20. BASELINE WITH PROJECT OPERATIONAL DEFICIENCY SUMMARY

STUDY INTERSECTION	DEFICIENCY NO.	DEFICIENCY TYPE	DEFICIENCY DESCRIPTION
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	3.a	Queue	NBL a.m. peak hour 95th percentile queue (150 ft) exceeds storage length (100 ft).
	3.b	Queue	NBL p.m. peak hour 95th percentile queue (145 ft) exceeds storage length (100 ft).
4. METRO AIR PARKWAY AND I-5 SOUTHBOUND RAMPS	4.a	Queue	SBR a.m. peak hour 95th percentile queue (255 ft) exceeds storage length (130 ft).
	4.b	Queue	SBR p.m. peak hour 95th percentile queue (185 ft) exceeds storage length (130 ft).
7. DEL PASO ROAD AND EL CENTRO ROAD	7.a	Queue	NBL a.m. peak hour 95th percentile queue (295 ft) exceeds storage length (280 ft).
11. DEL PASO ROAD AND EAST COMMERCE WAY	11.a	LOS	Intersection delay exceeds operational analysis thresholds in the a.m. peak hour.
	11.b	Queue	EBL a.m. peak hour 95th percentile queue (570 ft) exceeds storage length (375 ft).
	11.c	Queue	WBR a.m. peak hour 95th percentile queue (225 ft) exceeds storage length (140 ft).
12. WEST ELKHORN BOULEVARD AND METRO AIR PARKWAY	12.a	Queue	WBL a.m. peak hour 95th percentile queue (410 ft) exceeds storage length (350 ft).
	12.b	Queue	NBL p.m. peak hour 95th percentile queue (245 ft) exceeds storage length (400 ft).

TABLE 21. CUMULATIVE WITH PROJECT OPERATIONAL DEFICIENCY SUMMARY

STUDY INTERSECTION	DEFICIENCY NO.	DEFICIENCY TYPE	DEFICIENCY DESCRIPTION
3. METRO AIR PARKWAY AND I-5 NORTHBOUND RAMPS	3.a	Queue	SBT p.m. peak hour 95th percentile queue (705 ft) exceeds storage length (700 ft).
7. DEL PASO ROAD AND EL CENTRO ROAD	7.a	LOS	Intersection delay exceeds operational analysis thresholds in the p.m. peak hour
	7.b	Queue	EBR p.m. peak hour 95th percentile queue (145 ft) exceeds storage length (140 ft).
	7.c	Queue	NBL a.m. peak hour 95th percentile queue (410 ft) exceeds storage length (280 ft).
	7.d	Queue	NBR p.m. peak hour 95th percentile queue (215 ft) exceeds storage length (160 ft).
	7.e	Queue	SBL p.m. peak hour 95th percentile queue (445 ft) exceeds storage length (285 ft).
9. DEL PASO ROAD AND I-5 NORTHBOUND RAMPS*	9.a	LOS	Intersection delay exceeds operational analysis thresholds in the a.m. peak hour.
	9.b	LOS	Intersection delay exceeds operational analysis thresholds in the p.m. peak hour.
	9.c	Queue	NBL a.m. peak hour 95th percentile queue (2795 ft) exceeds storage length (1270 ft).
	9.d	Queue	NBL p.m. peak hour 95th percentile queue (2110 ft) exceeds storage length (1270 ft).
	9.e	Queue	NBR a.m. peak hour 95th percentile queue (2960 ft) exceeds storage length (1270 ft).
	9.a	Queue	NBR p.m. peak hour 95th percentile queue (2200 ft) exceeds storage length (1270 ft).
10. DEL PASO ROAD AND I-5 SOUTHBOUND RAMPS*	10.a	Queue	SBR a.m. peak hour 95th percentile queue (210 ft) exceeds storage length (200 ft).
	10.b	Queue	SBR p.m. peak hour 95th percentile queue (305 ft) exceeds storage length (200 ft).
11. EAST COMMERCE WAY & DEL PASO ROAD*	11.a	Queue	EBR a.m. peak hour 95th percentile queue (300 ft) exceeds storage length (205 ft).
	11.b	Queue	WBL p.m. peak hour 95th percentile queue (355 ft) exceeds storage length (235 ft).
	11.c	Queue	SBL p.m. peak hour 95th percentile queue (450 ft) exceeds storage length (285 ft).
15. EAST COMMERCE WAY & WEST ELKHORN BOULEVARD	15.a	Queue	EBR p.m. peak hour 95th percentile queue (425 ft) exceeds storage length (250 ft).
	15.b	Queue	WBL a.m. peak hour 95th percentile queue (405 ft) exceeds storage length (200 ft).
	15.c	LOS	Intersection delay exceeds operational analysis thresholds in the a.m. peak hour.

**Deficiencies are related to queues at Del Paso Road and East Commerce Way*

APPENDIX

APPENDIX

APPENDIX A:

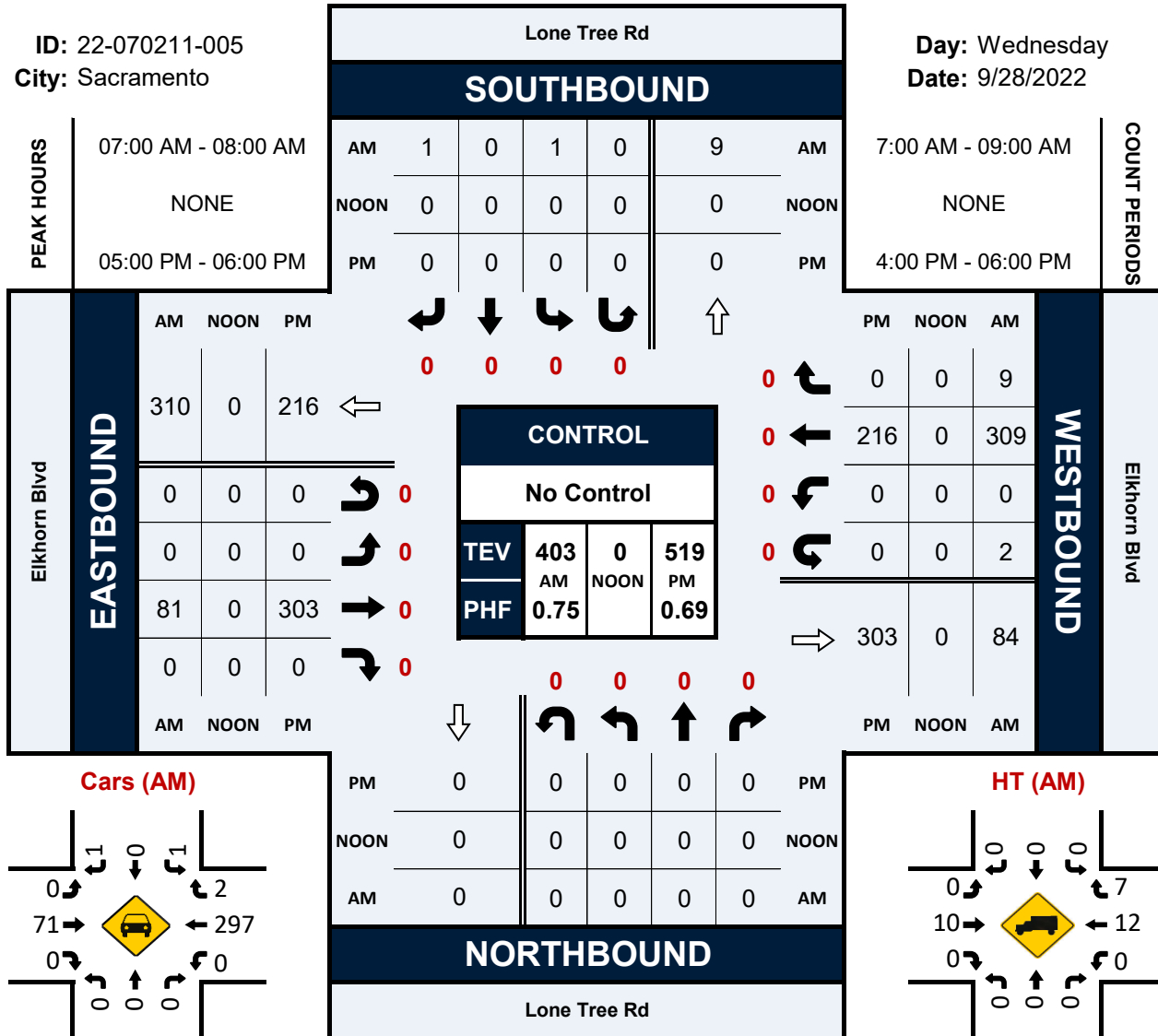
Traffic Count Data

Lone Tree Rd & Elkhorn Blvd

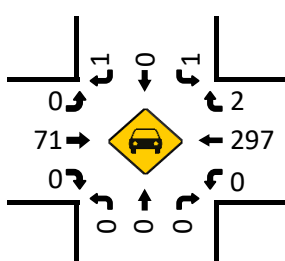
Peak Hour Turning Movement Count

ID: 22-070211-005
City: Sacramento

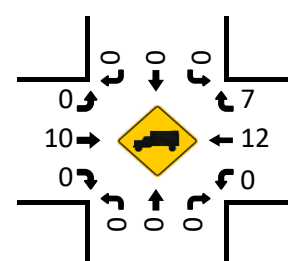
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Date: 9/28/2022



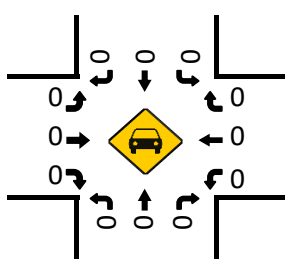
Cars (AM)



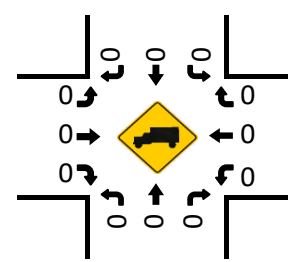
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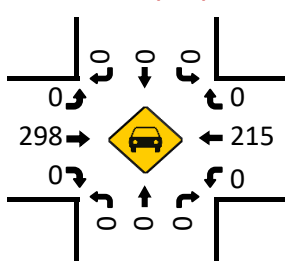
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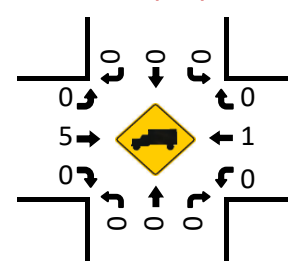
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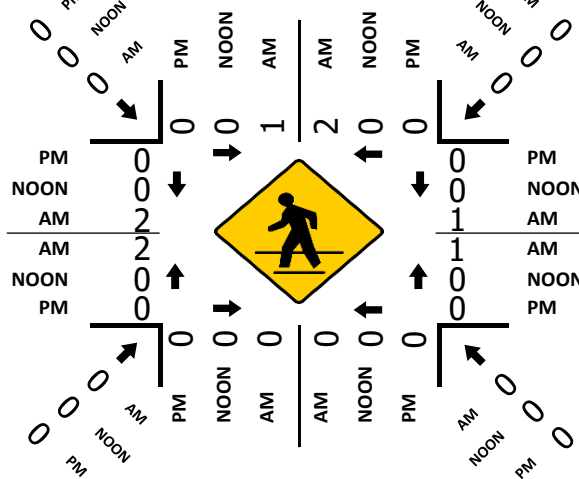
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)

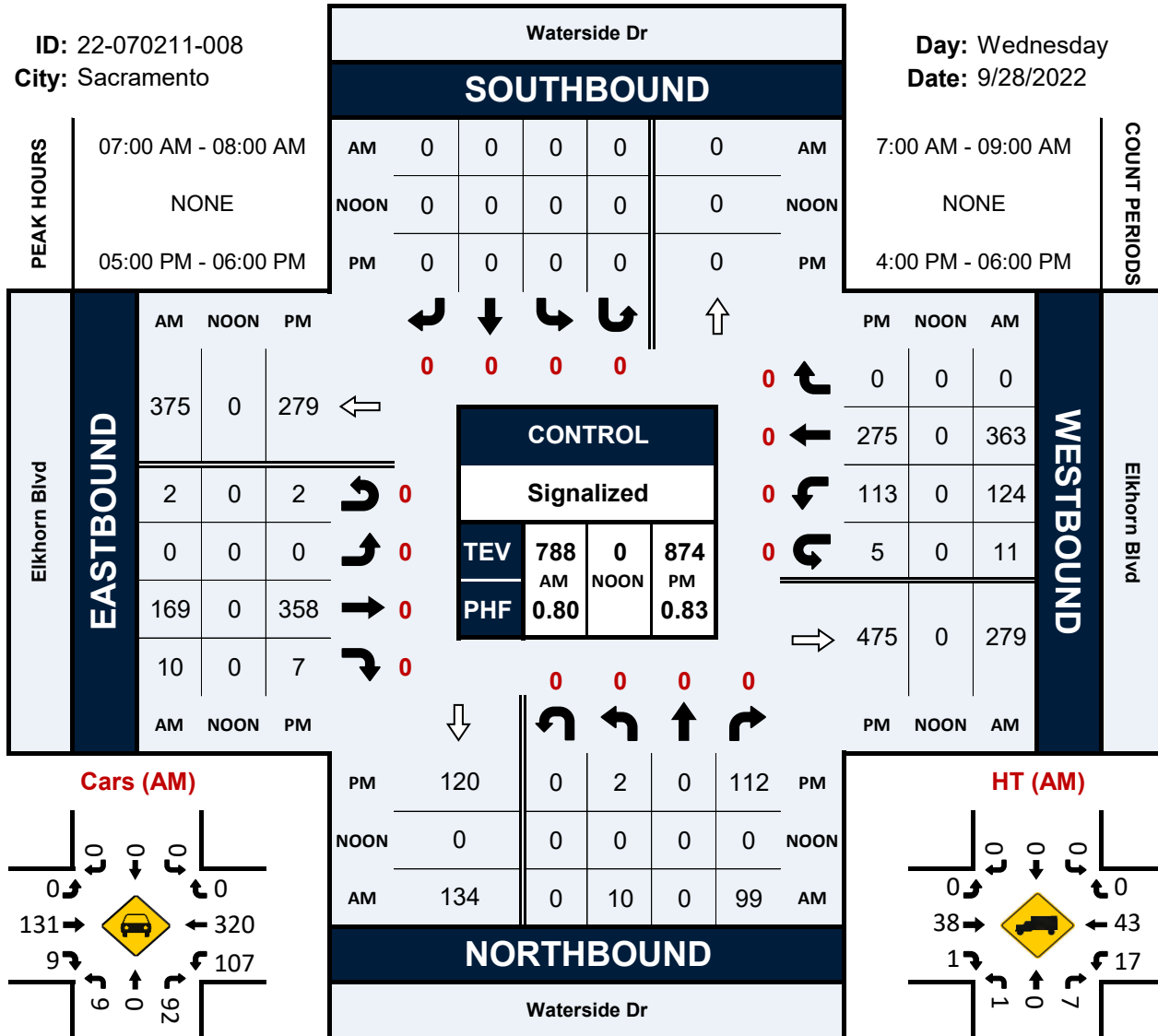


Waterside Dr & Elkhorn Blvd

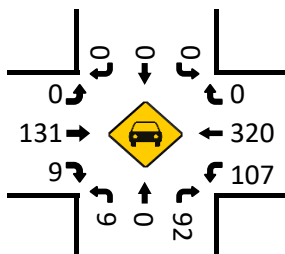
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City: Sacramento

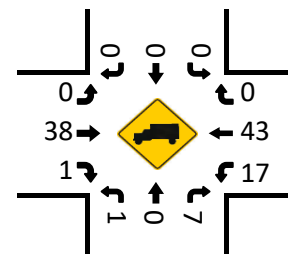
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Date: 9/28/2022



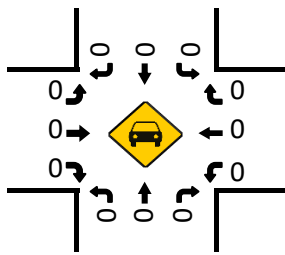
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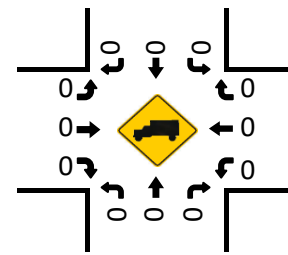
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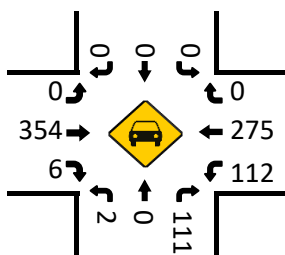
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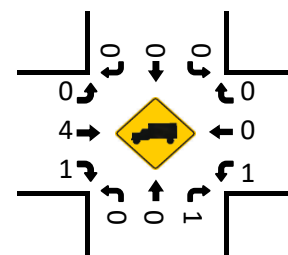
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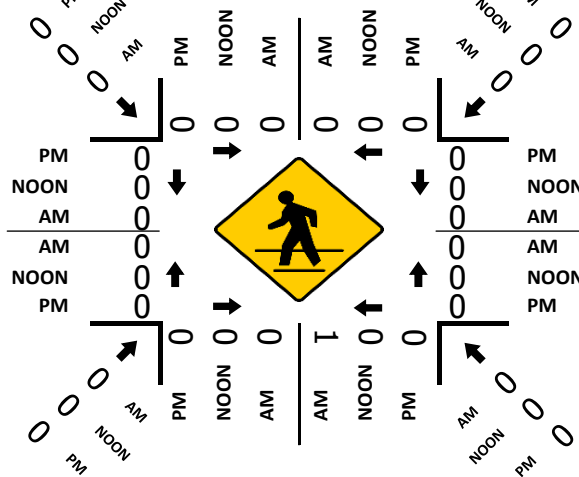
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



Wave St & Elkhorn Blvd

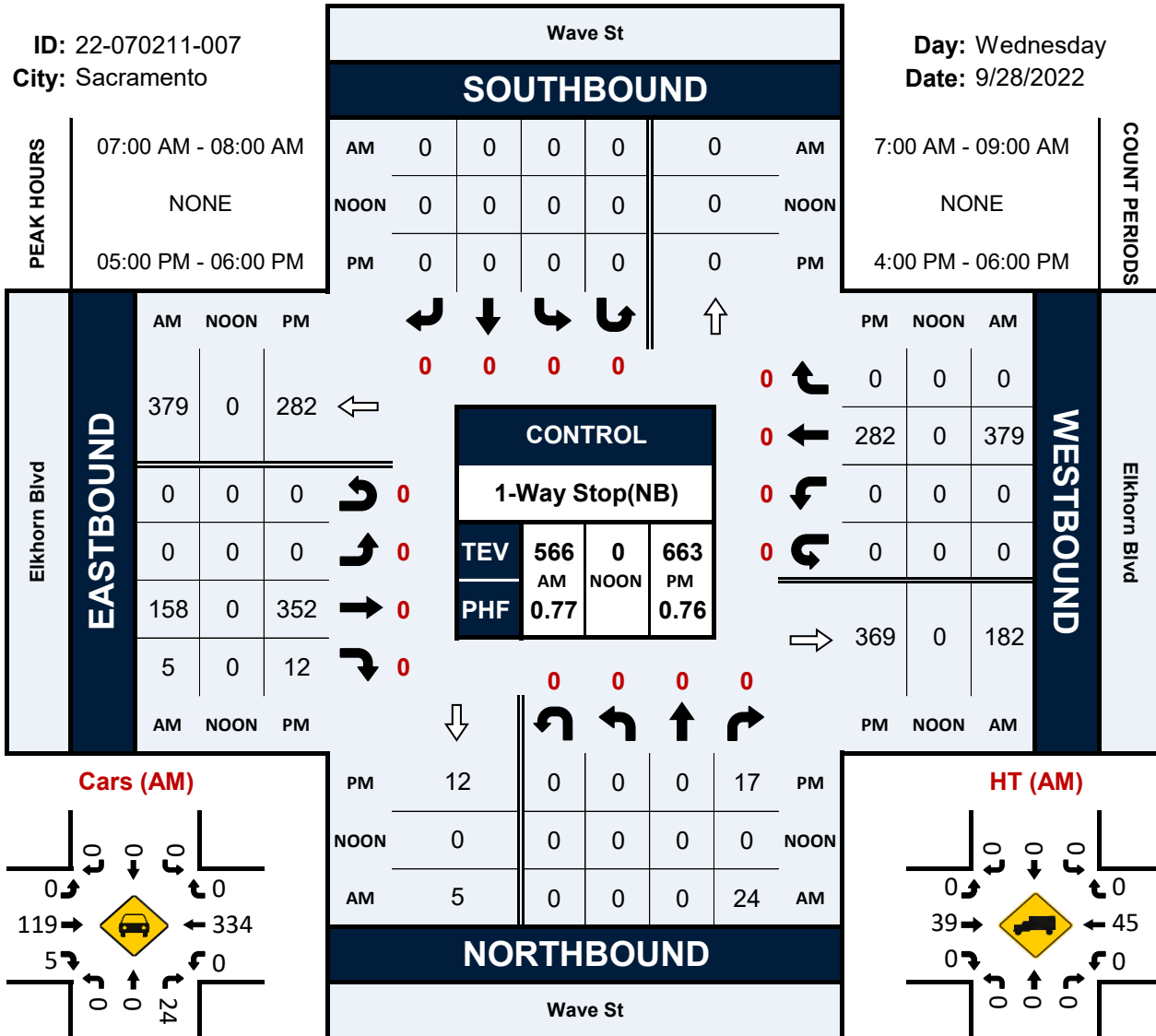
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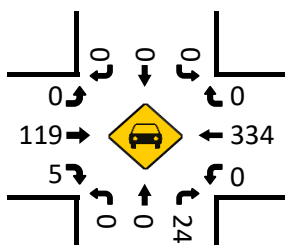
City: Sacramento

Day: Wednesday

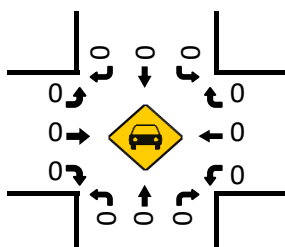
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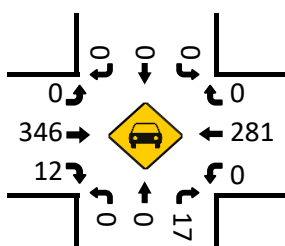
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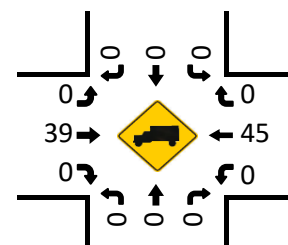
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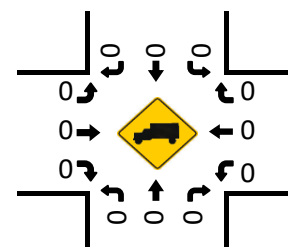
Cars (PM)



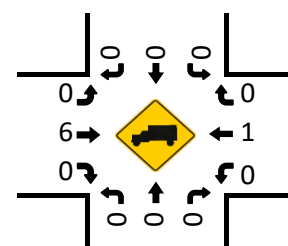
HT (AM)



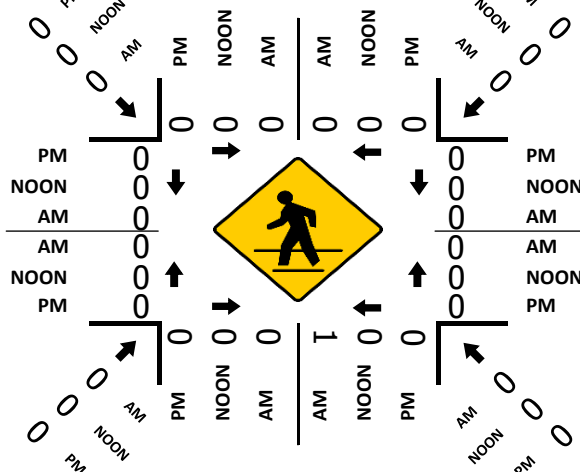
HT (NOON)



HT (PM)



Pedestrians (Crosswalks)

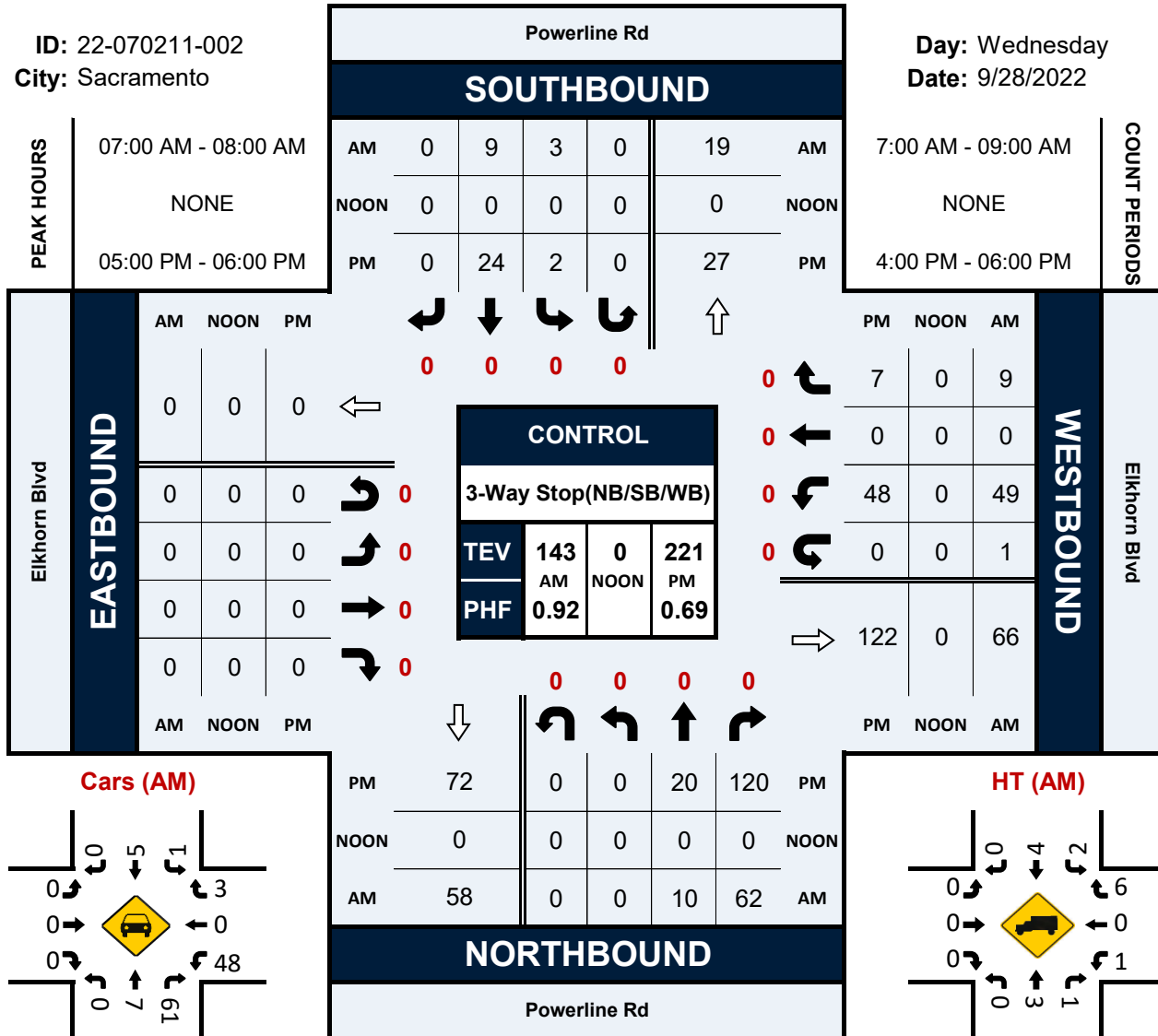


Powerline Rd & Elkhorn Blvd

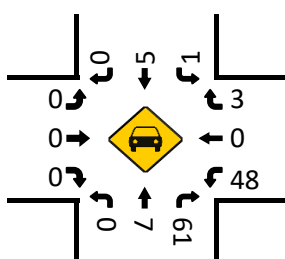
Peak Hour Turning Movement Count

ID: 22-070211-002
City: Sacramento

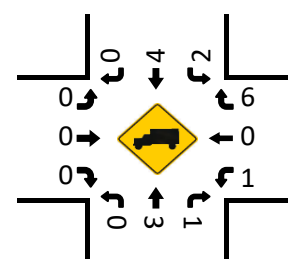
Day: Wednesday
Date: 9/28/2022



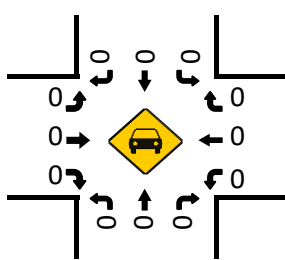
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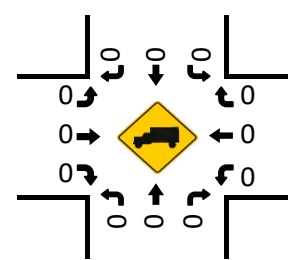
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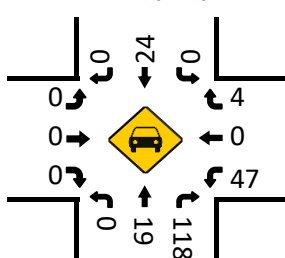
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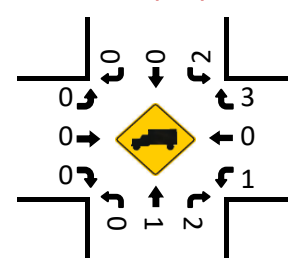
HT (NOON)



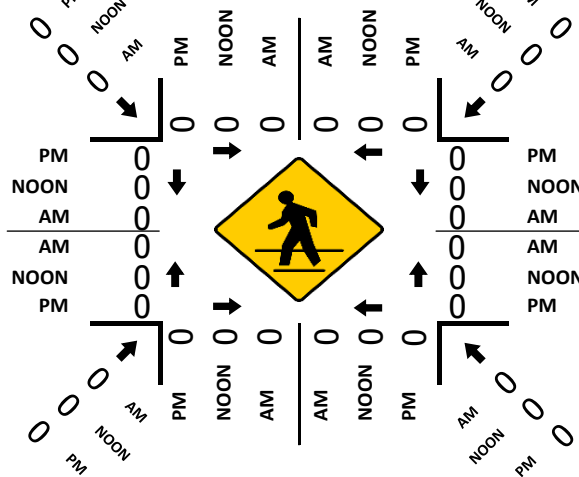
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



El Centro Rd & Hawkview Dr

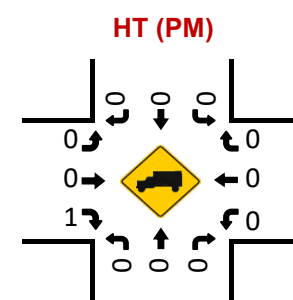
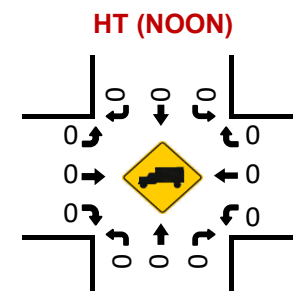
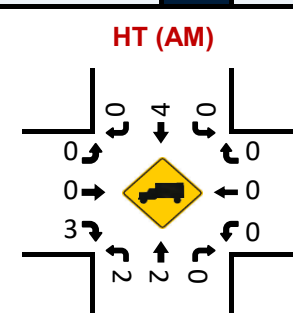
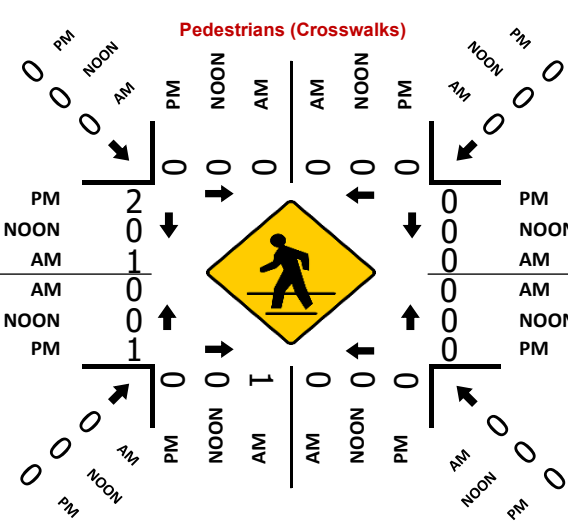
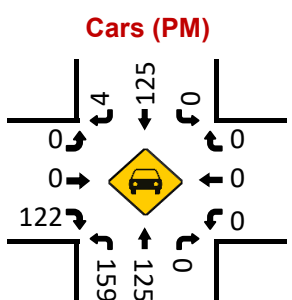
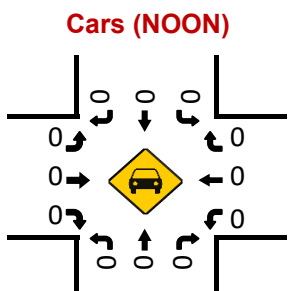
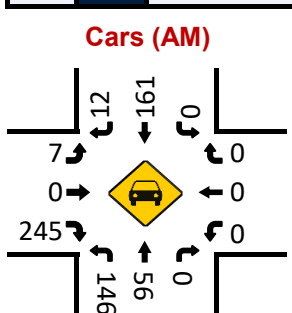
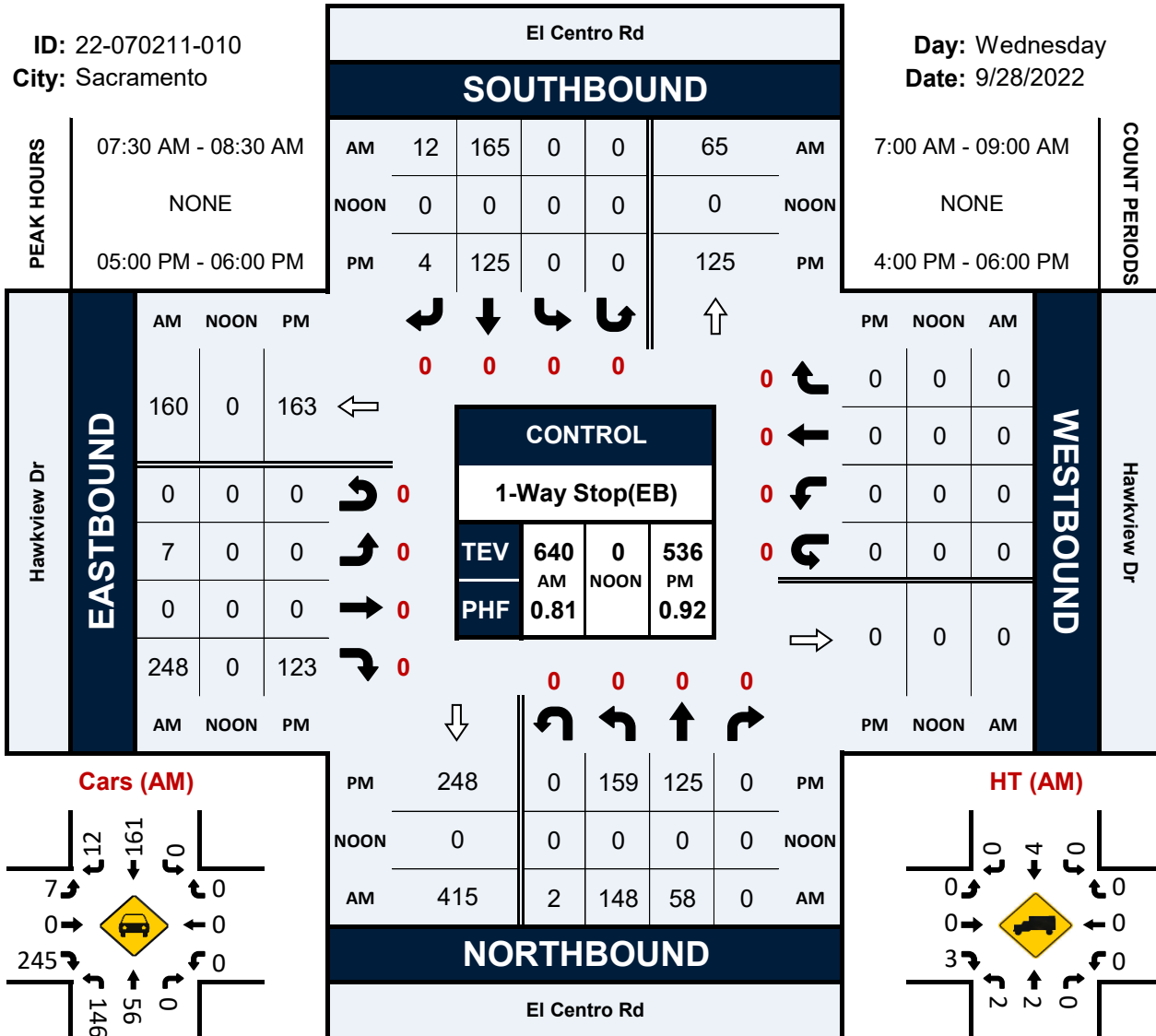
Peak Hour Turning Movement Count

ID: 22-070211-010

City: Sacramento

Day: Wednesday

Date: 9/28/2022

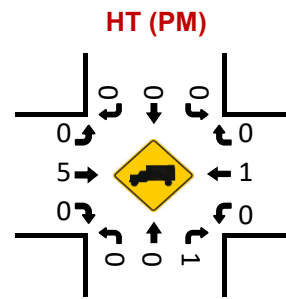
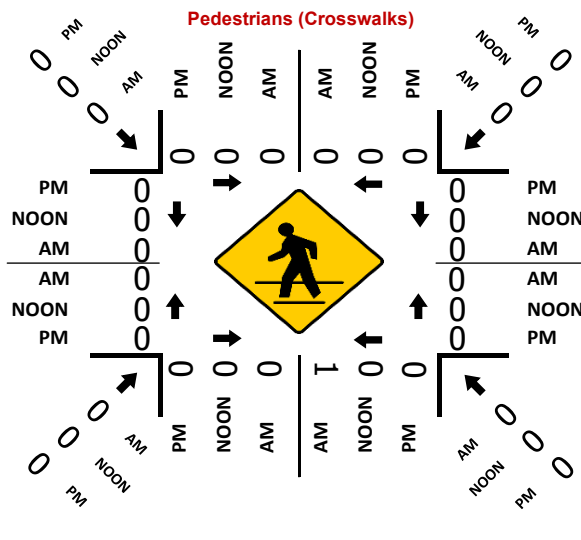
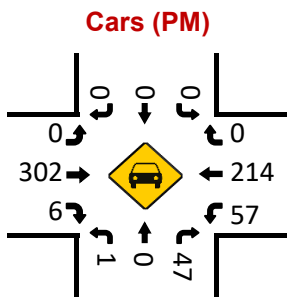
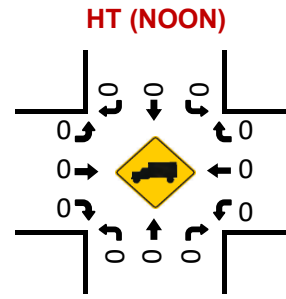
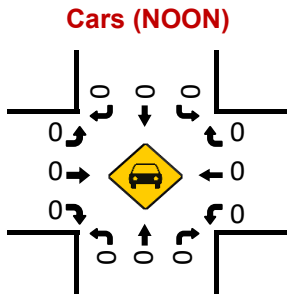
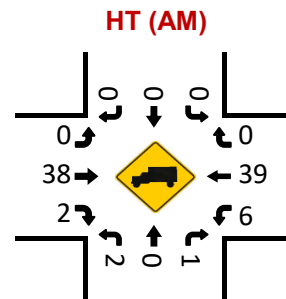
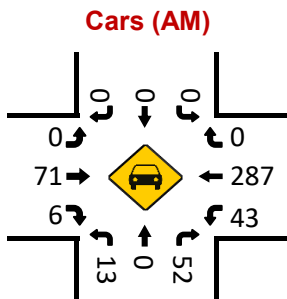
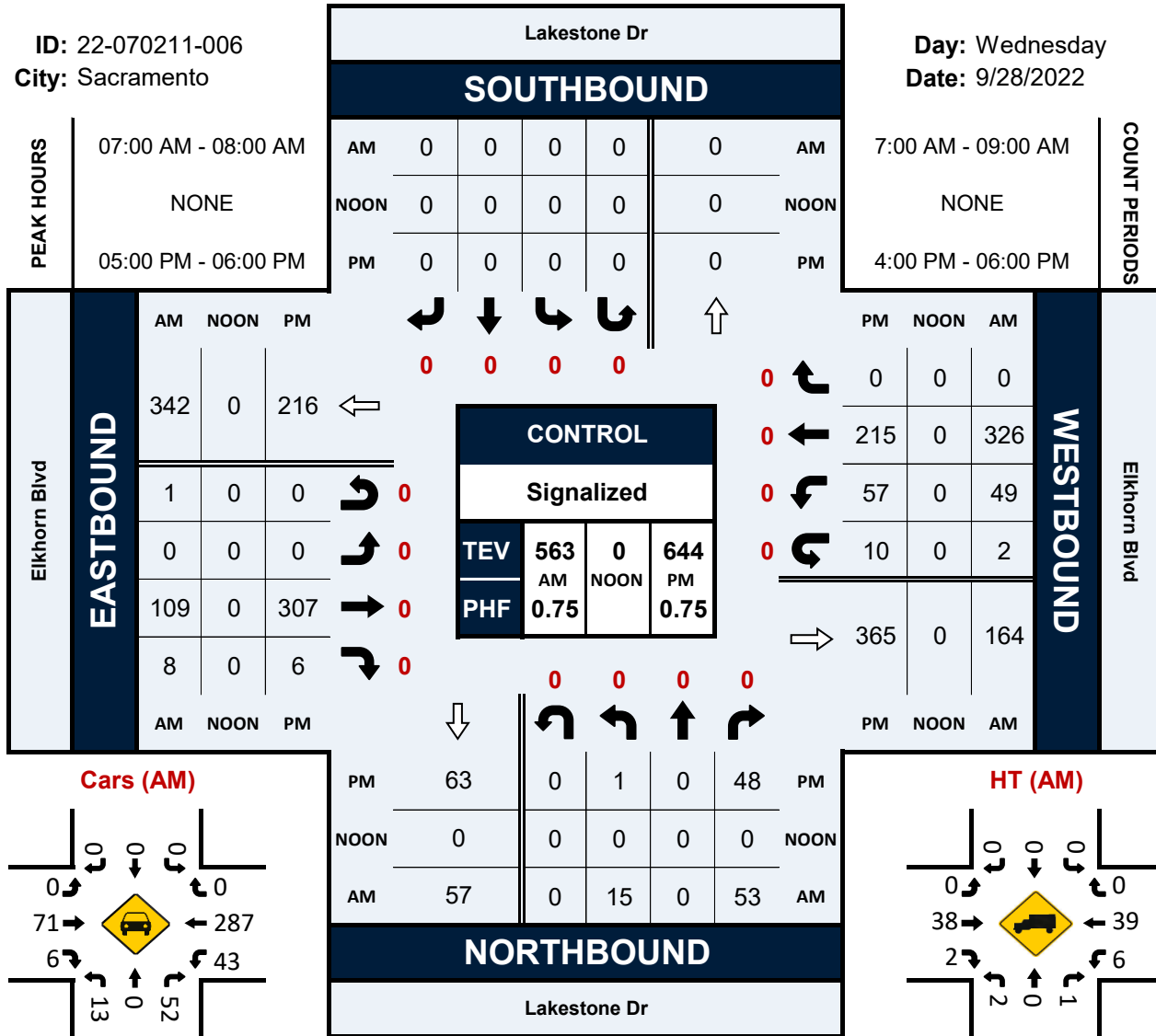


Lakestone Dr & Elkhorn Blvd

Peak Hour Turning Movement Count

ID: 22-070211-006
City: Sacramento

Day: Wednesday
Date: 9/28/2022



Powerline Rd & Garden Hwy

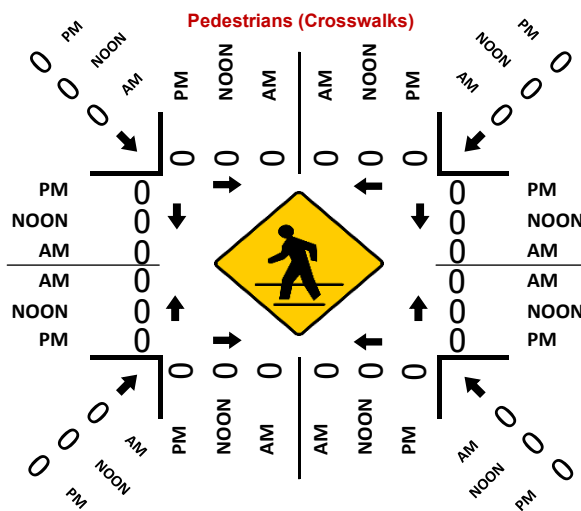
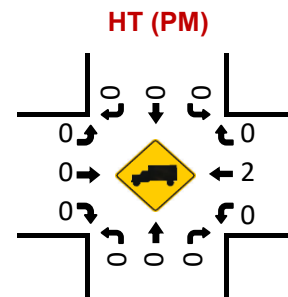
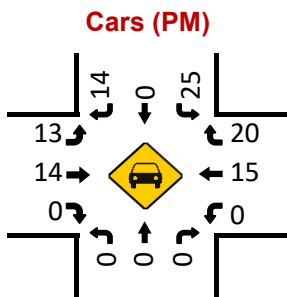
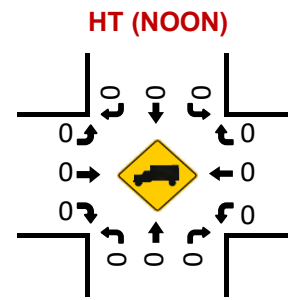
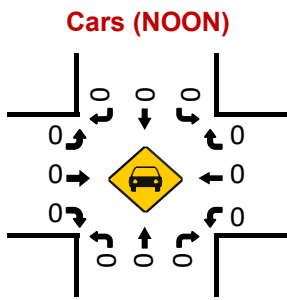
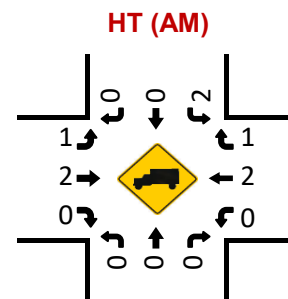
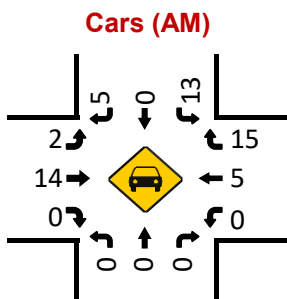
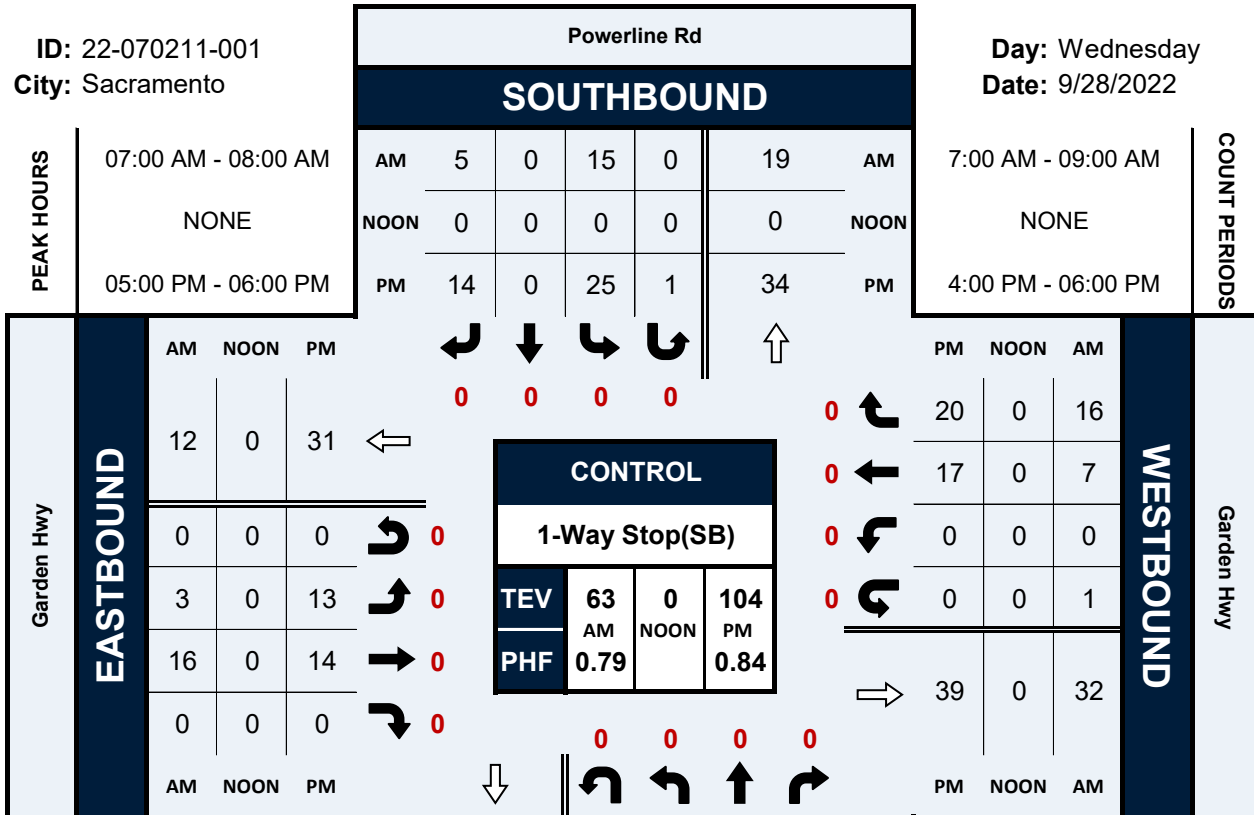
Peak Hour Turning Movement Count

ID: 22-070211-001

City: Sacramento

Day: Wednesday

Date: 9/28/2022



Metro Air Pkwy & Meister Way

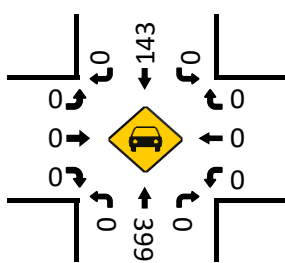
Peak Hour Turning Movement Count

ID: 22-070211-003
City: Sacramento

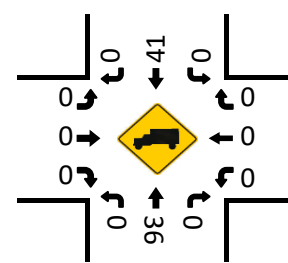
Day: Wednesday
Date: 9/28/2022

PEAK HOURS		Metro Air Pkwy								COUNT PERIODS		
		SOUTHBOUND										
PEAK HOURS	07:00 AM - 08:00 AM	AM	0	184	0	0	435	AM	7:00 AM - 09:00 AM	COUNT PERIODS		
	NONE	NOON	0	0	0	0	0	NOON	NONE			
	05:00 PM - 06:00 PM	PM	1	323	0	0	383	PM	4:00 PM - 06:00 PM			
Meister Way		AM	NOON	PM					PM	NOON	AM	
	EASTBOUND	0	0	1	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	1	0	0	0	0	0	0	0	
	AM	NOON	PM					PM	NOON	AM		
		CONTROL										
		No Control										
		TEV	619	0	708							
		AM	NOON	PM								
		PHF	0.67		0.57							
		NORTHBOUND										
		PM	324	0	0	383	0	PM				
		NOON	0	0	0	0	0	NOON				
		AM	184	0	0	435	0	AM				

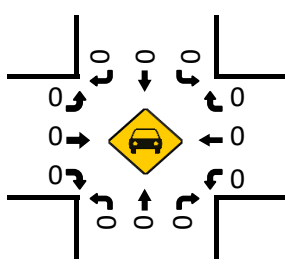
Cars (AM)



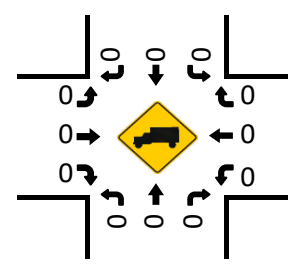
HT (AM)



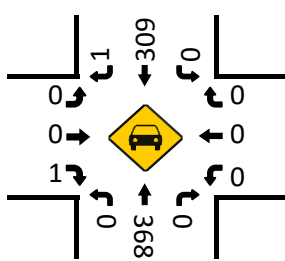
Cars (NOON)



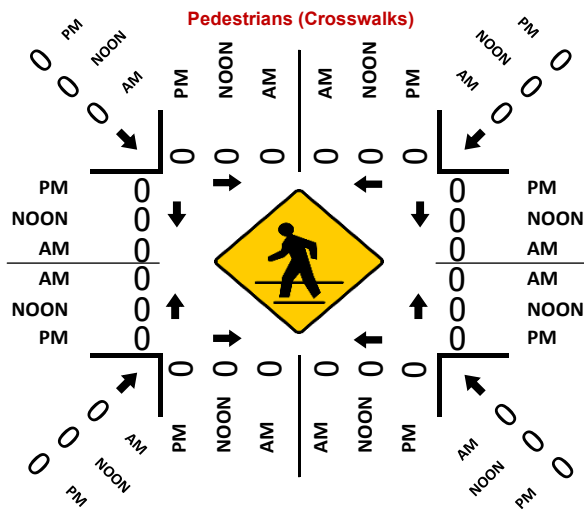
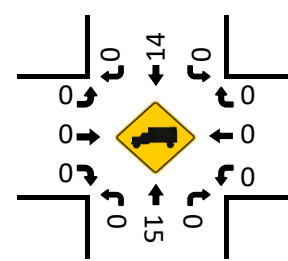
HT (NOON)



Cars (PM)



HT (PM)

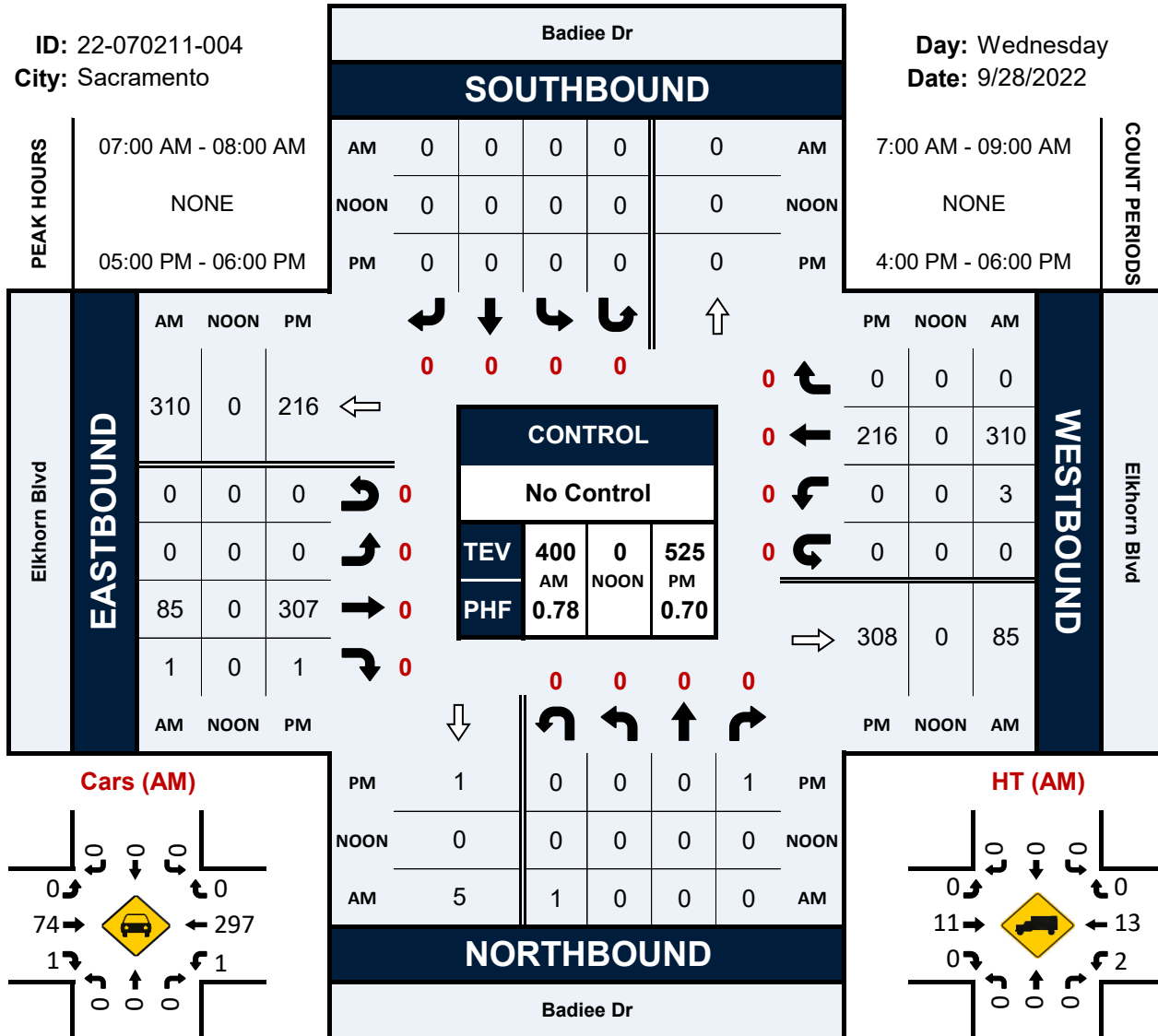


Badiee Dr & Elkhorn Blvd

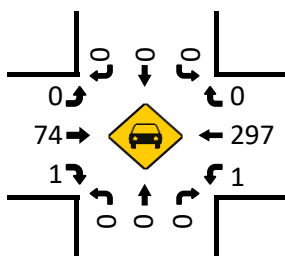
Peak Hour Turning Movement Count

ID: 22-070211-004
City: Sacramento

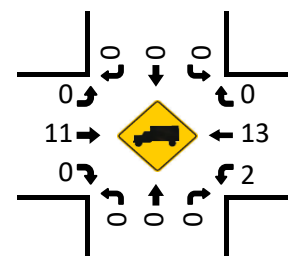
Day: Wednesday
Date: 9/28/2022



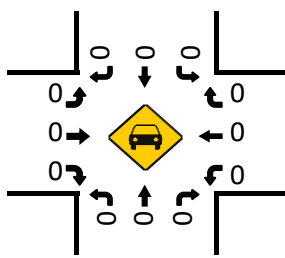
Cars (AM)



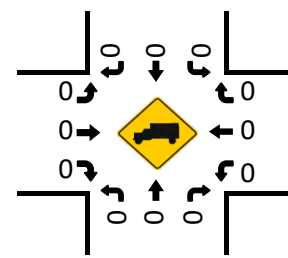
HT (AM)



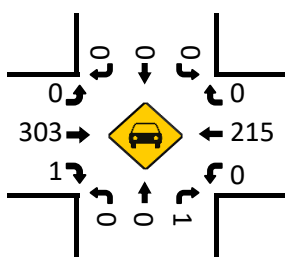
Cars (NOON)



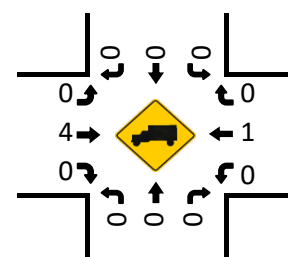
HT (NOON)



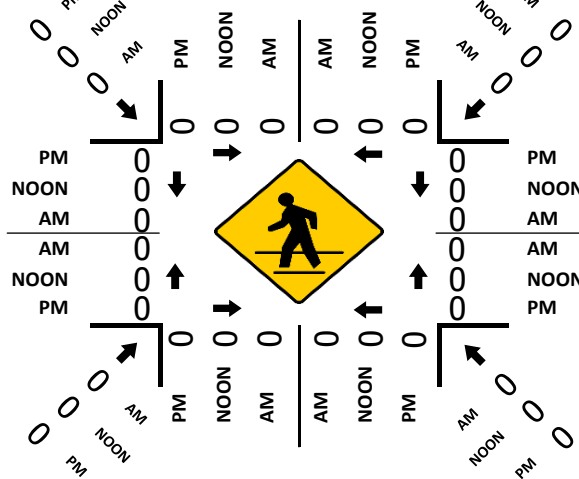
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



Callison Dr & Bayou Way

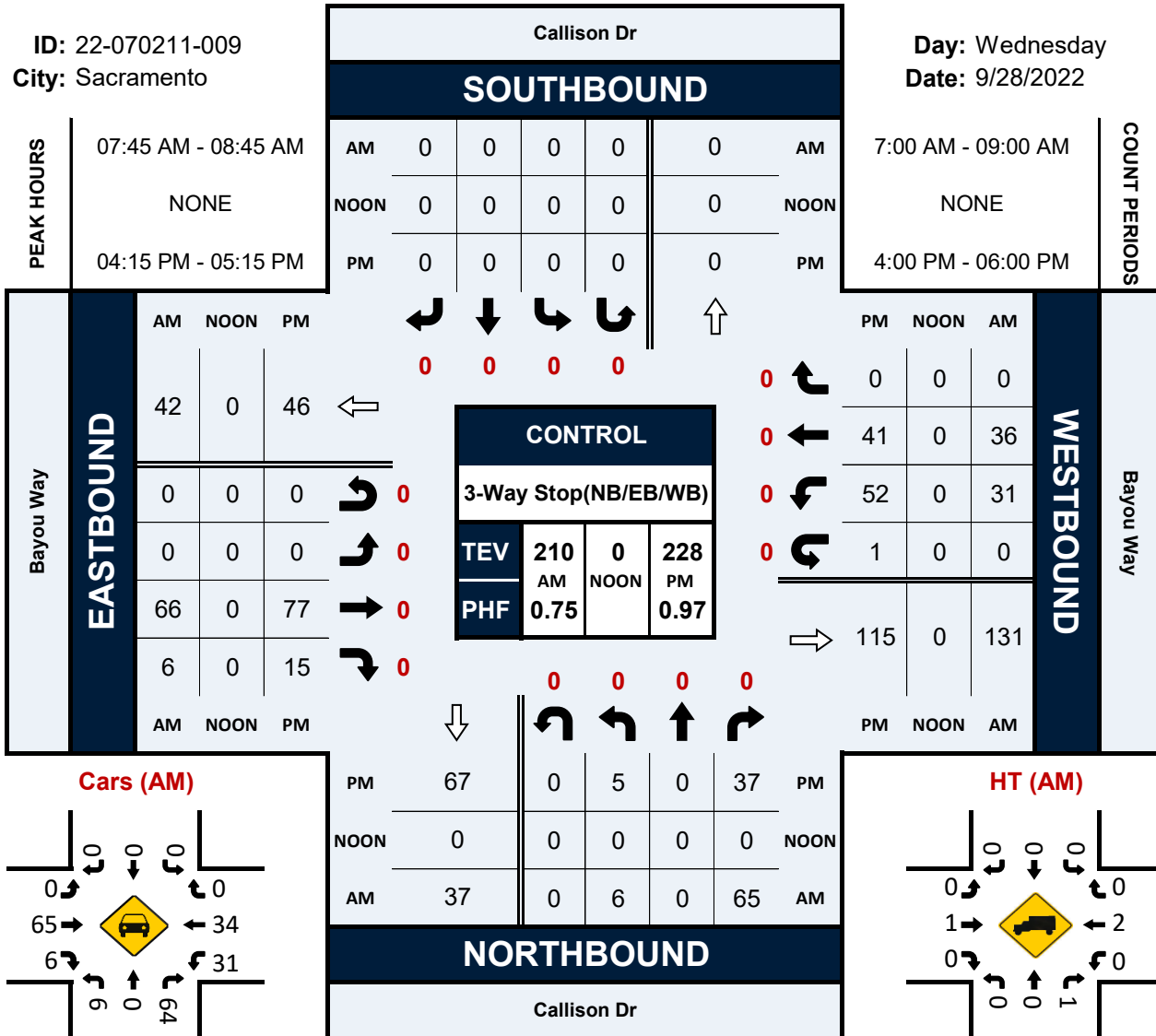
Peak Hour Turning Movement Count

ID: 22-070211-009

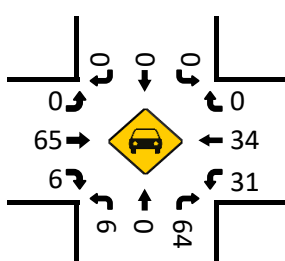
City: Sacramento

Day: Wednesday

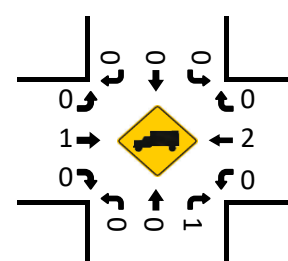
Date: 9/28/2022



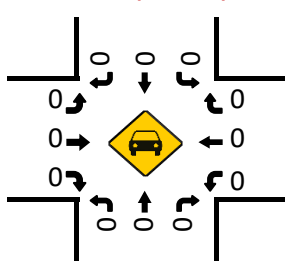
Cars (AM)



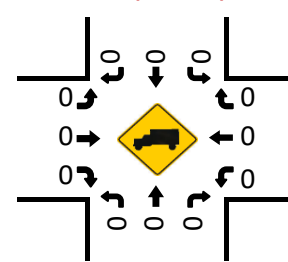
HT (AM)



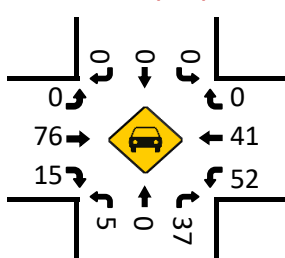
Cars (NOON)



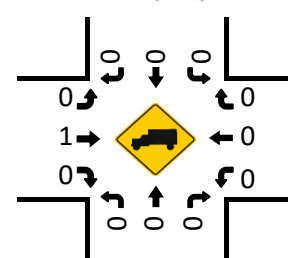
HT (NOON)



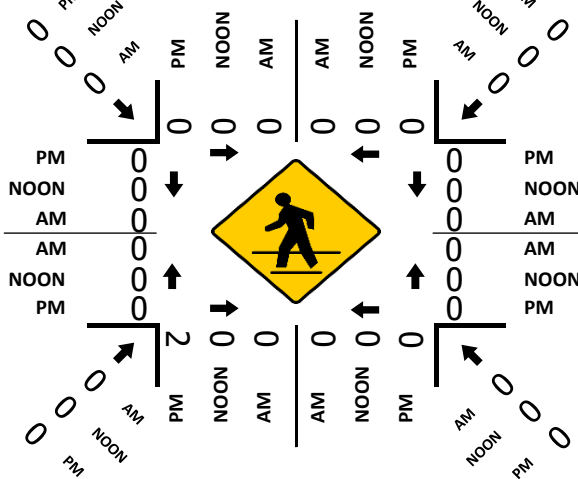
Cars (PM)



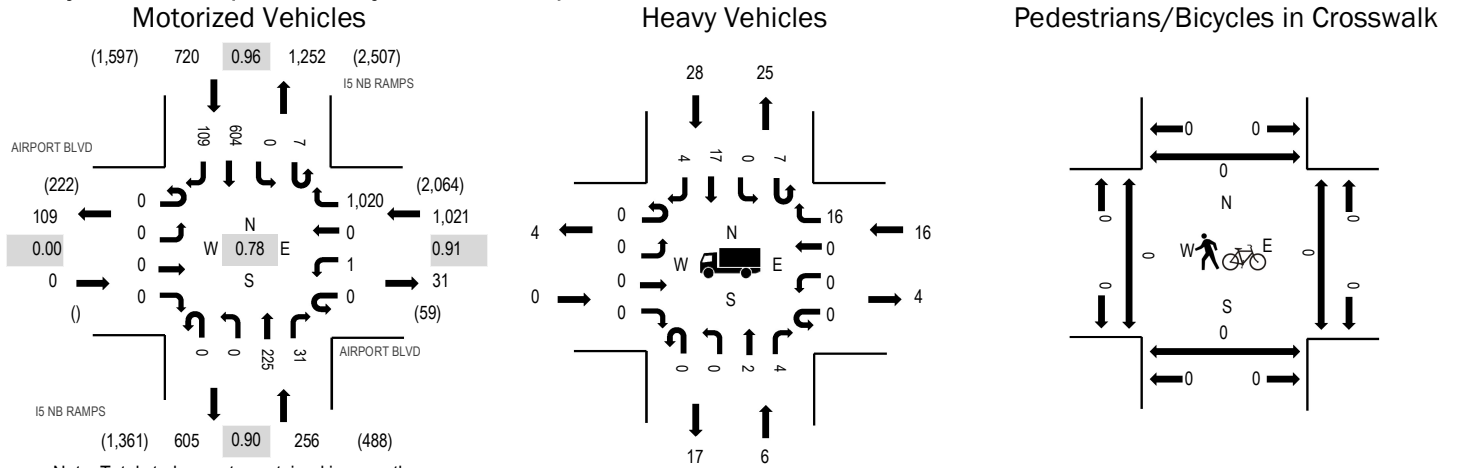
HT (PM)



Pedestrians (Crosswalks)



Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	1.6%	0.91
NB	2.3%	0.90
SB	3.9%	0.96
All	2.5%	0.78

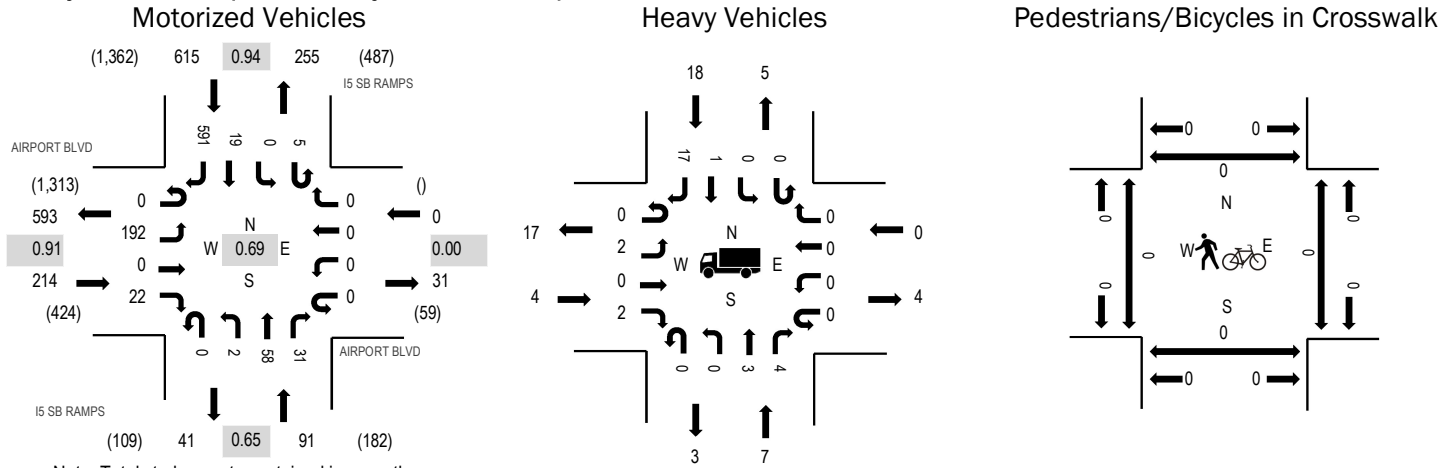
Traffic Counts - Motorized Vehicles

Interval Start Time	AIRPORT BLVD Eastbound				AIRPORT BLVD Westbound				I5 NB RAMPS Northbound				I5 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	0	0	0	0	0	209	0	0	47	4	2	0	165	24	451	1,895
7:15 AM	0	0	0	0	0	0	0	259	0	0	43	12	2	0	145	16	477	1,935
7:30 AM	0	0	0	0	0	0	0	261	0	0	50	5	0	0	153	28	497	1,997
7:45 AM	0	0	0	0	0	0	0	235	0	0	54	13	5	0	136	27	470	2,084
8:00 AM	0	0	0	0	0	1	0	243	0	0	56	7	2	0	159	23	491	2,254
8:15 AM	0	0	0	0	0	0	0	281	0	0	65	6	0	0	156	31	539	
8:30 AM	0	0	0	0	0	1	0	295	0	0	58	2	2	0	194	32	584	
8:45 AM	0	0	0	0	0	0	0	279	0	0	56	10	3	0	251	41	640	
Count Total	0	0	0	0	0	2	0	2,062	0	0	429	59	16	0	1,359	222	4,149	
Peak Hour	0	0	0	0	0	1	0	1,020	0	0	225	31	7	0	604	109	1,997	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	5	11	16	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	2	10	6	18	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	2	4	6	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	0	5	11	16	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	0	2	3	9	14	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	4	6	4	14	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	0	1	1	11	13	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	0	1	3	6	10	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	0	10	35	62	107	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	6	16	28	50	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.9%	0.91
WB	0.0%	0.00
NB	7.7%	0.65
SB	2.9%	0.94
All	3.2%	0.69

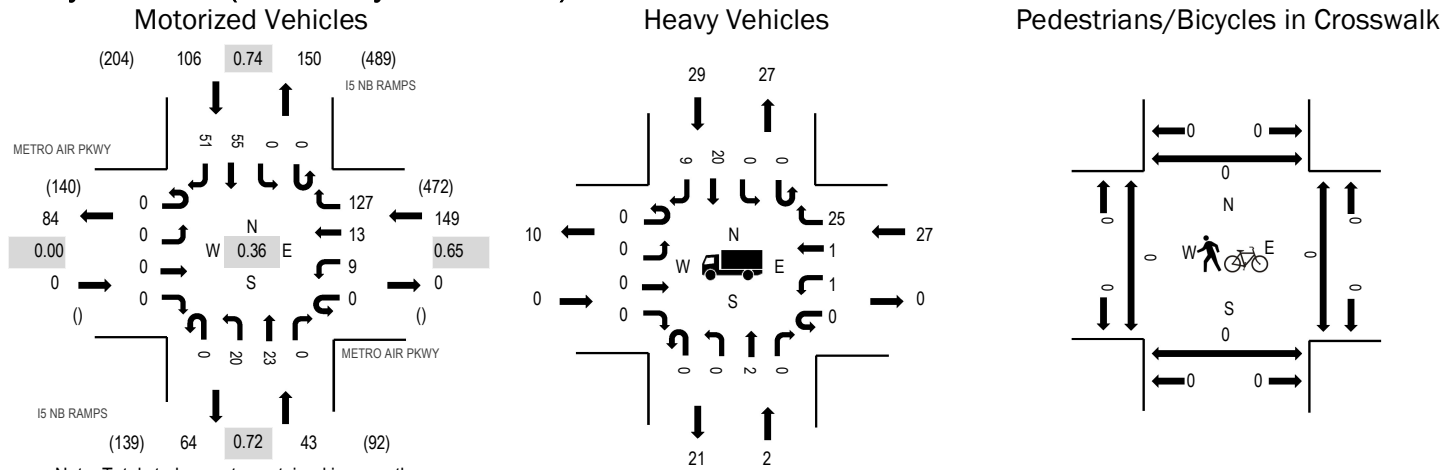
Traffic Counts - Motorized Vehicles

Interval Start Time	AIRPORT BLVD Eastbound				AIRPORT BLVD Westbound				I5 SB RAMPS Northbound			I5 SB RAMPS Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru			Right
7:00 AM	0	42	0	16	0	0	0	0	0	0	8	4	1	0	8	155	234	898
7:15 AM	0	34	0	14	0	0	0	0	0	1	20	12	1	0	4	138	224	901
7:30 AM	0	40	0	4	0	0	0	0	0	0	12	5	2	0	3	152	218	920
7:45 AM	0	46	0	7	0	0	0	0	0	2	20	13	1	0	7	126	222	961
8:00 AM	0	50	0	8	0	0	0	0	0	0	12	7	1	0	4	155	237	1,070
8:15 AM	0	56	0	3	0	0	0	0	0	0	14	6	1	0	5	158	243	
8:30 AM	0	50	0	6	0	0	0	0	0	1	13	2	0	0	8	179	259	
8:45 AM	0	43	0	5	0	0	0	0	0	0	20	10	0	0	7	246	331	
Count Total	0	361	0	63	0	0	0	0	0	4	119	59	7	0	46	1,309	1,968	
Peak Hour	0	192	0	22	0	0	0	0	0	2	58	31	5	0	19	591	920	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	0	6	6	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	2	1	0	5	8	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	3	3	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	1	0	0	5	6	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	1	3	0	6	10	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	2	4	0	4	10	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	1	0	0	8	9	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	2	0	0	0	2	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	9	8	0	37	54	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	4	7	0	18	29	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	18.1%	0.65
NB	4.7%	0.72
SB	27.4%	0.74
All	19.5%	0.36

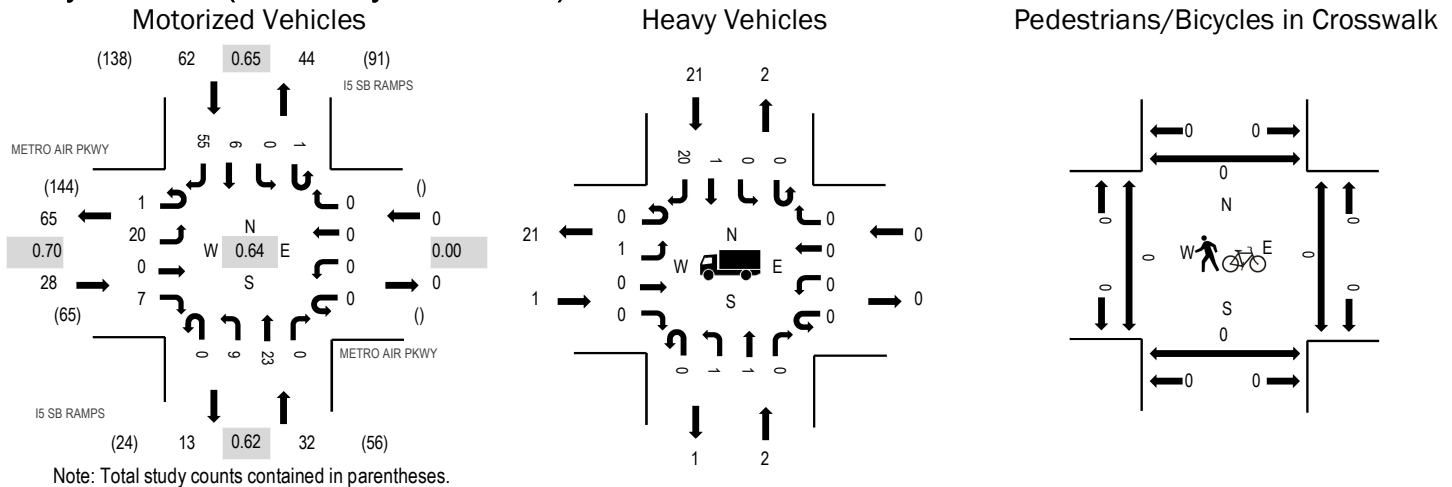
Traffic Counts - Motorized Vehicles

Interval Start Time	METRO AIR PKWY Eastbound				METRO AIR PKWY Westbound				I5 NB RAMPS Northbound				I5 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	0	0	0	4	4	113	0	6	9	0	0	0	21	12	169	542
7:15 AM	0	0	0	0	0	2	3	157	0	2	12	0	0	0	24	9	209	438
7:30 AM	0	0	0	0	0	1	4	52	0	3	4	0	0	0	24	12	100	298
7:45 AM	0	0	0	0	0	2	3	27	0	5	3	0	0	0	11	13	64	240
8:00 AM	0	0	0	0	0	1	3	27	0	6	9	0	0	0	9	10	65	226
8:15 AM	0	0	0	0	0	5	3	21	0	6	7	0	0	0	11	16	69	
8:30 AM	0	0	0	0	0	1	0	18	0	3	5	0	0	0	12	3	42	
8:45 AM	0	0	0	0	0	2	1	18	0	5	7	0	0	0	9	8	50	
Count Total	0	0	0	0	0	18	21	433	0	36	56	0	0	0	121	83	768	
Peak Hour	0	0	0	0	0	9	13	127	0	20	23	0	0	0	55	51	298	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	4	8	12	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	0	14	4	18	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	9	6	15	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	0	3	8	11	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	0	2	6	9	17	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	0	9	6	15	8:15 AM	0	1	0	0	1	8:15 AM	0	0	0	0	0
8:30 AM	0	1	7	8	16	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	0	0	3	6	9	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	0	3	55	55	113	Count Total	0	1	0	0	1	Count Total	0	0	0	0	0
Peak Hour	0	2	27	29	58	Peak Hour	0	1	0	0	1	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	3.6%	0.70
WB	0.0%	0.00
NB	6.3%	0.62
SB	33.9%	0.65
All	19.7%	0.64

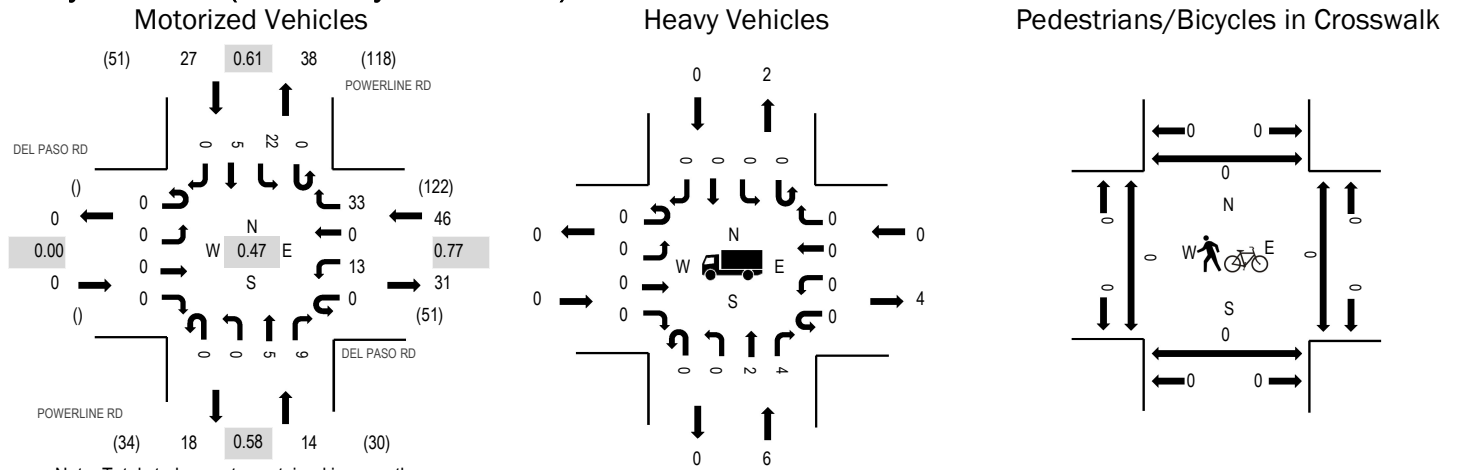
Traffic Counts - Motorized Vehicles

Interval Start Time	METRO AIR PKWY Eastbound				METRO AIR PKWY Westbound				I5 SB RAMPS Northbound				I5 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	10	0	4	0	0	0	0	0	4	5	0	0	0	2	23	48	153
7:15 AM	0	8	0	0	0	0	0	0	0	3	5	0	0	0	0	26	42	132
7:30 AM	1	4	0	1	0	0	0	0	0	2	3	0	1	0	2	21	35	122
7:45 AM	0	3	0	5	0	0	0	0	0	3	4	0	0	0	1	12	28	107
8:00 AM	0	4	0	0	0	0	0	0	0	2	11	0	0	0	1	9	27	106
8:15 AM	0	9	0	1	0	0	0	0	0	2	5	0	0	0	2	13	32	
8:30 AM	0	6	0	0	0	0	0	0	0	0	1	0	0	0	1	12	20	
8:45 AM	0	7	0	2	0	0	0	0	0	1	5	0	0	0	2	10	27	
Count Total	1	51	0	13	0	0	0	0	0	17	39	0	1	0	11	126	259	
Peak Hour	1	20	0	7	0	0	0	0	0	9	23	0	1	0	6	55	122	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	1	0	6	7	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	5	5	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	4	4	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	1	0	6	7	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	1	1	0	6	8	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	5	5	8:15 AM	0	1	0	0	1	8:15 AM	0	0	0	0	0
8:30 AM	1	0	0	8	9	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	4	5	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	2	4	0	44	50	Count Total	0	1	0	0	1	Count Total	0	0	0	0	0
Peak Hour	1	2	0	21	24	Peak Hour	0	1	0	0	1	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	0.0%	0.77
NB	42.9%	0.58
SB	0.0%	0.61
All	6.9%	0.47

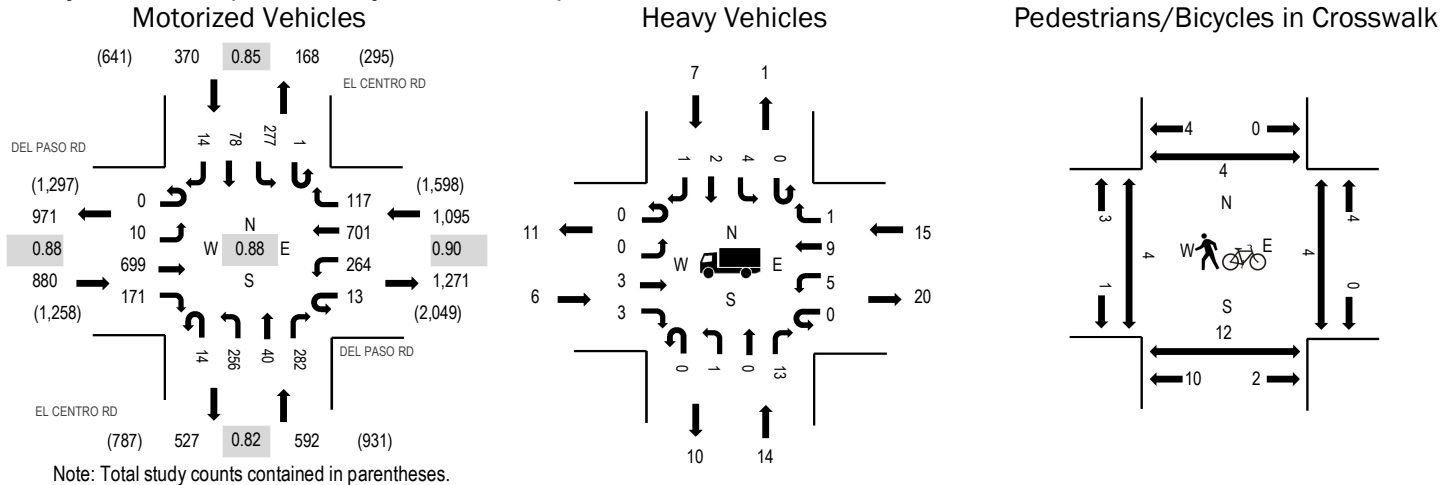
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				POWERLINE RD Northbound				POWERLINE RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	0	0	0	1	0	32	0	0	2	2	0	3	6	0	46	140
7:15 AM	0	0	0	0	0	0	0	28	0	0	2	2	0	6	1	0	39	110
7:30 AM	0	0	0	0	0	4	0	11	0	0	0	1	0	9	1	0	26	87
7:45 AM	0	0	0	0	0	4	0	11	0	0	0	3	0	9	2	0	29	74
8:00 AM	0	0	0	0	0	1	0	7	0	0	2	4	0	2	0	0	16	63
8:15 AM	0	0	0	0	0	4	0	4	0	0	3	1	0	2	2	0	16	
8:30 AM	0	0	0	0	0	1	0	6	0	0	2	2	0	1	1	0	13	
8:45 AM	0	0	0	0	0	4	0	4	0	0	4	0	0	4	2	0	18	
Count Total	0	0	0	0	0	19	0	103	0	0	15	15	0	36	15	0	203	
Peak Hour	0	0	0	0	0	13	0	33	0	0	5	9	0	22	5	0	87	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	1	0	0	1	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	1	0	0	1	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	2	0	0	2	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	3	0	0	3	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	1	1	8:30 AM	0	0	0	0	0
8:45 AM	0	0	1	0	1	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	0	7	1	0	8	Count Total	0	0	0	1	1	Count Total	0	0	0	0	0
Peak Hour	0	6	0	0	6	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.7%	0.88
WB	1.4%	0.90
NB	2.4%	0.82
SB	1.9%	0.85
All	1.4%	0.88

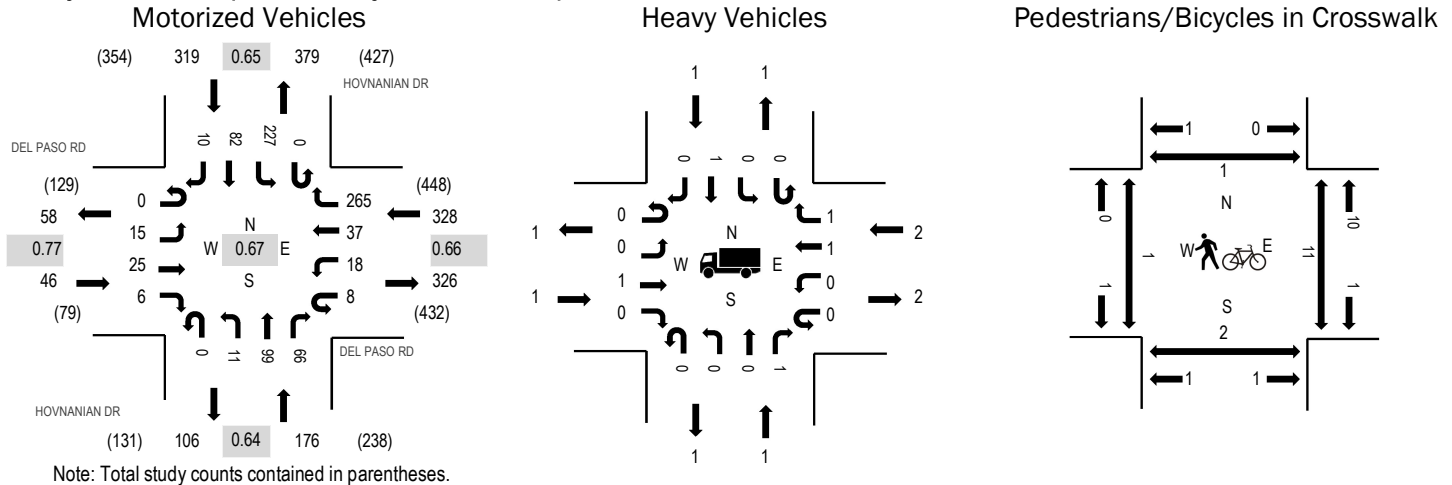
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				EL CENTRO RD Northbound				EL CENTRO RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	56	8	0	25	66	15	4	22	5	39	0	45	7	4	296	2,181
7:15 AM	1	0	81	14	1	27	79	18	0	32	9	48	0	63	17	4	394	2,632
7:30 AM	0	3	117	30	6	54	191	13	5	60	13	67	1	79	19	3	661	2,937
7:45 AM	0	2	197	52	5	59	195	46	4	85	16	76	0	63	27	3	830	2,717
8:00 AM	0	3	197	46	2	75	154	21	2	56	7	75	0	81	22	6	747	2,247
8:15 AM	0	2	188	43	0	76	161	37	3	55	4	64	0	54	10	2	699	
8:30 AM	0	0	122	20	2	61	64	30	1	11	10	64	0	45	11	0	441	
8:45 AM	0	0	69	7	1	44	37	33	1	5	7	81	0	61	13	1	360	
Count Total	1	10	1,027	220	17	421	947	213	20	326	71	514	1	491	126	23	4,428	
Peak Hour	0	10	699	171	13	264	701	117	14	256	40	282	1	277	78	14	2,937	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	6	1	2	0	9	7:00 AM	0	1	0	0	1	7:00 AM	2	1	1	1	5
7:15 AM	0	1	5	2	8	7:15 AM	0	1	0	0	1	7:15 AM	2	5	0	0	7
7:30 AM	3	6	3	1	13	7:30 AM	0	0	0	0	0	7:30 AM	3	6	3	3	15
7:45 AM	1	1	8	2	12	7:45 AM	0	0	0	0	0	7:45 AM	0	3	0	0	3
8:00 AM	2	3	2	4	11	8:00 AM	0	0	0	0	0	8:00 AM	0	2	1	1	4
8:15 AM	0	4	2	0	6	8:15 AM	0	0	0	0	0	8:15 AM	1	1	0	0	2
8:30 AM	2	4	4	0	10	8:30 AM	0	0	0	0	0	8:30 AM	3	4	0	0	7
8:45 AM	1	3	3	1	8	8:45 AM	0	0	0	0	0	8:45 AM	2	3	0	0	5
Count Total	15	23	29	10	77	Count Total	0	2	0	0	2	Count Total	13	25	5	5	48
Peak Hour	6	14	15	7	42	Peak Hour	0	0	0	0	0	Peak Hour	4	12	4	4	24

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	2.2%	0.77
WB	0.6%	0.66
NB	0.6%	0.64
SB	0.3%	0.65
All	0.6%	0.67

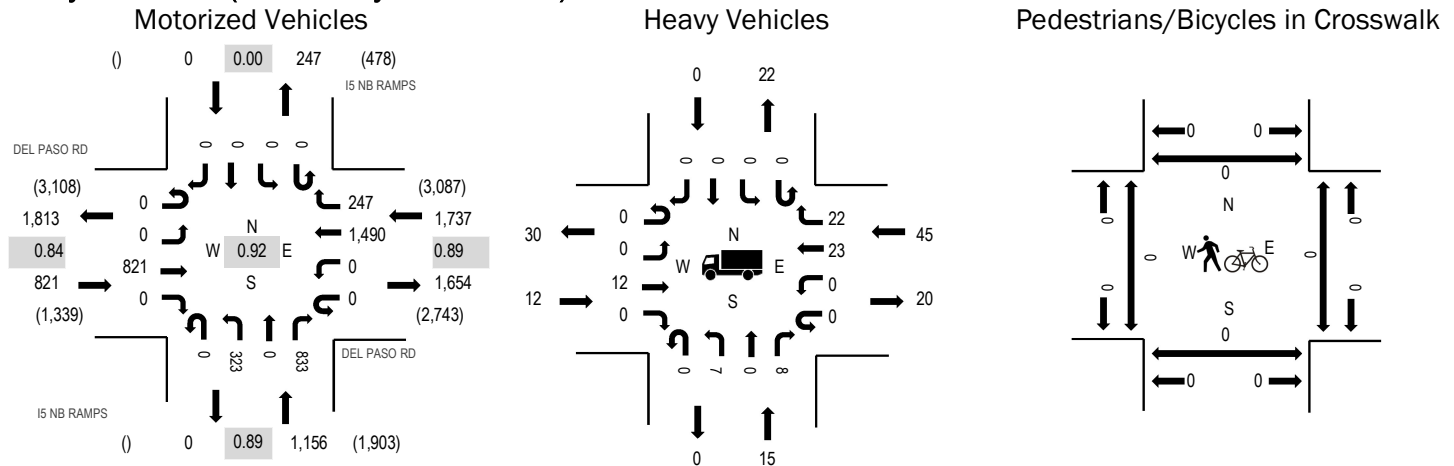
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				HOVNIANIAN DR Northbound				HOVNIANIAN DR Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	10	1	0	1	29	11	0	0	0	7	0	2	0	0	61	487
7:15 AM	0	2	6	0	0	2	22	18	0	3	0	6	0	2	0	1	62	749
7:30 AM	0	5	5	1	2	6	12	41	0	2	5	14	0	14	1	2	110	869
7:45 AM	0	2	5	2	2	2	11	84	0	3	42	24	0	44	29	4	254	837
8:00 AM	0	6	8	1	2	4	6	112	0	3	47	11	0	87	33	3	323	632
8:15 AM	0	2	7	2	2	6	8	28	0	3	5	17	0	82	19	1	182	
8:30 AM	0	0	10	2	1	8	5	10	2	0	1	17	0	20	2	0	78	
8:45 AM	0	0	2	0	1	4	5	3	0	6	3	17	0	5	3	0	49	
Count Total	0	17	53	9	10	33	98	307	2	20	103	113	0	256	87	11	1,119	
Peak Hour	0	15	25	6	8	18	37	265	0	11	99	66	0	227	82	10	869	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	2	1	1	0	4	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0	7:15 AM	0	2	0	0	2
7:30 AM	0	1	1	0	2	7:30 AM	0	0	0	0	0	7:30 AM	0	1	2	0	3
7:45 AM	1	0	1	1	3	7:45 AM	0	1	0	0	1	7:45 AM	0	0	6	0	6
8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0	8:00 AM	0	0	1	0	1
8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0	8:15 AM	1	1	2	1	5
8:30 AM	0	1	1	0	2	8:30 AM	0	0	1	0	1	8:30 AM	0	1	0	0	1
8:45 AM	0	0	2	0	2	8:45 AM	0	0	0	0	0	8:45 AM	0	1	0	0	1
Count Total	3	3	6	1	13	Count Total	0	1	1	0	2	Count Total	1	6	11	2	20
Peak Hour	1	1	2	1	5	Peak Hour	0	1	0	0	1	Peak Hour	1	2	11	1	15

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.5%	0.84
WB	2.6%	0.89
NB	1.3%	0.89
SB	0.0%	0.00
All	1.9%	0.92

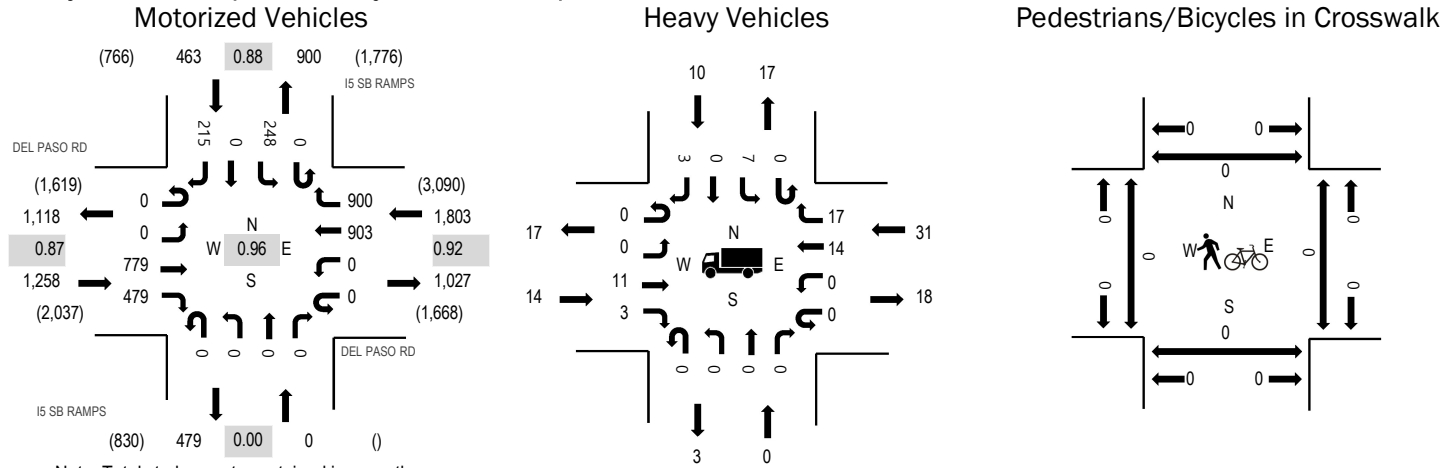
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				I5 NB RAMPS Northbound			I5 NB RAMPS Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru			Right
7:00 AM	0	0	80	0	0	0	260	64	0	44	0	127	0	0	0	0	575	3,271
7:15 AM	0	0	113	0	0	0	361	63	0	46	0	135	0	0	0	0	718	3,560
7:30 AM	0	0	191	0	0	0	411	78	0	86	0	203	0	0	0	0	969	3,714
7:45 AM	0	0	245	0	0	0	368	71	0	89	0	236	0	0	0	0	1,009	3,428
8:00 AM	0	0	199	0	0	0	343	55	0	69	0	198	0	0	0	0	864	3,058
8:15 AM	0	0	186	0	0	0	368	43	0	79	0	196	0	0	0	0	872	
8:30 AM	0	0	169	0	0	0	270	53	0	47	0	144	0	0	0	0	683	
8:45 AM	0	0	156	0	0	0	228	51	0	39	0	165	0	0	0	0	639	
Count Total	0	0	1,339	0	0	0	2,609	478	0	499	0	1,404	0	0	0	0	6,329	
Peak Hour	0	0	821	0	0	0	1,490	247	0	323	0	833	0	0	0	0	3,714	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	1	1	10	0	12	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	4	5	9	0	18	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	3	3	11	0	17	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	3	18	0	21	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	6	5	12	0	23	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	3	4	4	0	11	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	5	3	6	0	14	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	5	9	4	0	18	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	27	33	74	0	134	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	12	15	45	0	72	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.1%	0.87
WB	1.7%	0.92
NB	0.0%	0.00
SB	2.2%	0.88
All	1.6%	0.96

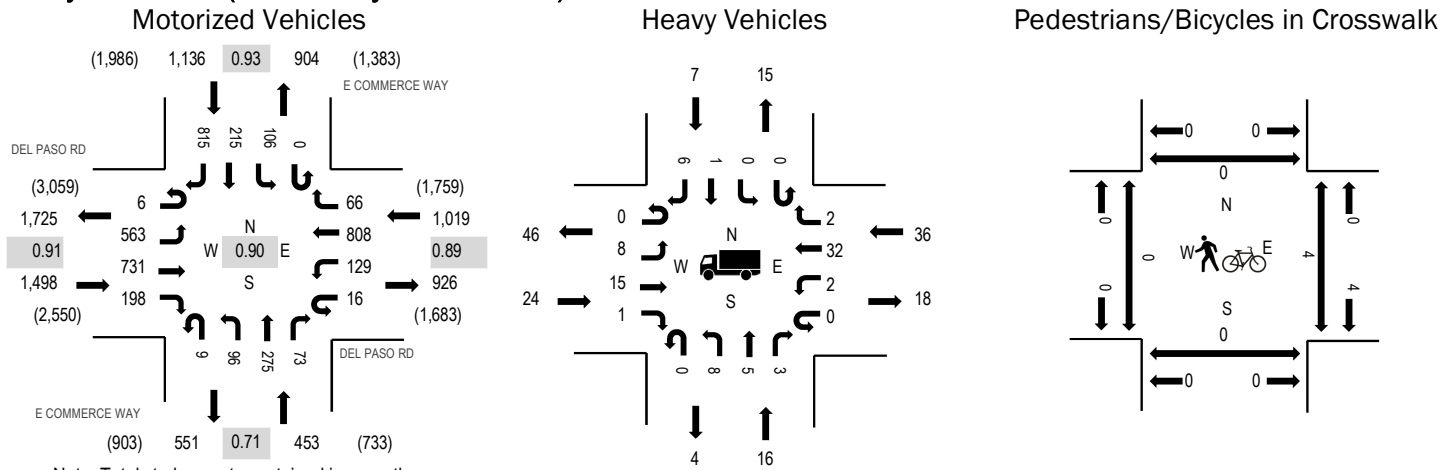
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				I5 SB RAMPS Northbound				I5 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	66	77	0	0	88	215	0	0	0	0	0	41	0	21	508	2,981
7:15 AM	0	0	81	111	0	0	112	298	0	0	0	0	0	60	0	18	680	3,353
7:30 AM	0	0	131	124	0	0	229	262	0	0	0	0	0	82	0	43	871	3,524
7:45 AM	0	0	233	105	0	0	256	197	0	0	0	0	0	69	0	62	922	3,286
8:00 AM	0	0	235	128	0	0	197	218	0	0	0	0	0	44	0	58	880	2,912
8:15 AM	0	0	180	122	0	0	221	223	0	0	0	0	0	53	0	52	851	
8:30 AM	0	0	142	92	1	0	114	195	0	0	0	0	0	58	0	31	633	
8:45 AM	0	0	139	71	0	0	96	168	0	0	0	0	0	53	0	21	548	
Count Total	0	0	1,207	830	1	0	1,313	1,776	0	0	0	0	0	460	0	306	5,893	
Peak Hour	0	0	779	479	0	0	903	900	0	0	0	0	0	248	0	215	3,524	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	2	0	5	1	8	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	3	0	8	2	13	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	5	0	6	0	11	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	3	0	11	3	17	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	4	0	8	4	16	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	2	0	6	3	11	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	3	0	7	2	12	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	2	0	3	6	11	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	24	0	54	21	99	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	14	0	31	10	55	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.6%	0.91
WB	3.5%	0.89
NB	3.5%	0.71
SB	0.6%	0.93
All	2.0%	0.90

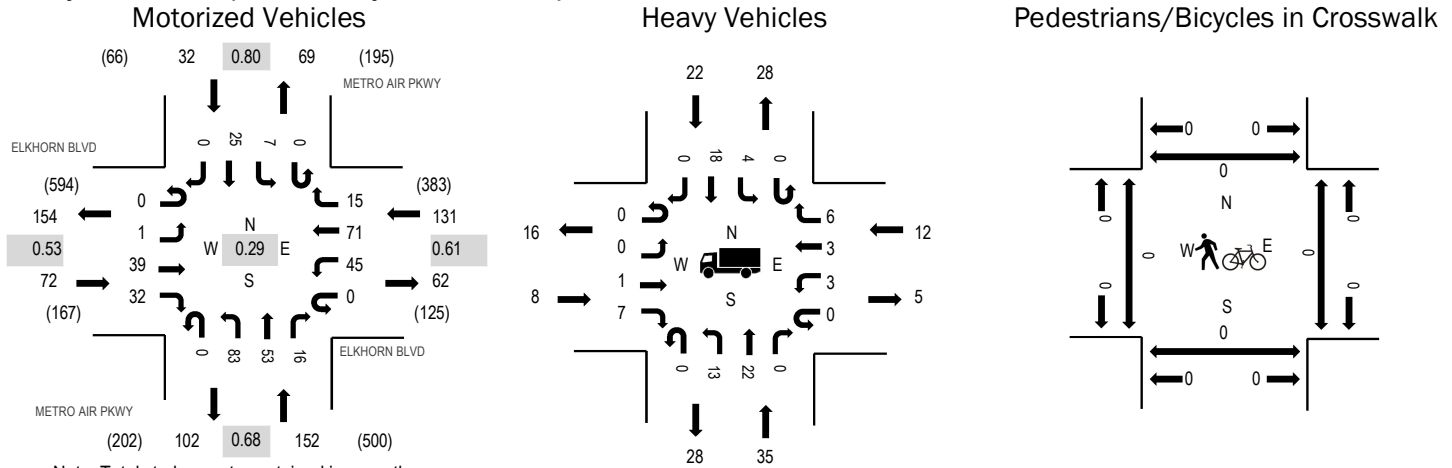
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	53	106	38	0	14	132	11	0	22	23	10	0	8	16	166	599	3,492
7:15 AM	1	67	116	30	3	15	175	6	3	13	29	9	0	15	30	239	751	3,909
7:30 AM	3	129	173	46	2	27	206	19	2	26	53	13	0	27	31	248	1,005	4,106
7:45 AM	0	146	191	76	5	37	227	18	1	30	104	25	0	23	78	176	1,137	3,913
8:00 AM	1	149	186	45	2	34	190	14	4	17	73	18	0	26	64	193	1,016	3,536
8:15 AM	2	139	181	31	7	31	185	15	2	23	45	17	0	30	42	198	948	
8:30 AM	2	113	177	32	10	22	147	10	1	17	29	25	0	17	49	161	812	
8:45 AM	0	81	199	37	9	31	144	11	4	17	46	32	0	21	30	98	760	
Count Total	9	877	1,329	335	38	211	1,406	104	17	165	402	149	0	167	340	1,479	7,028	
Peak Hour	6	563	731	198	16	129	808	66	9	96	275	73	0	106	215	815	4,106	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	4	5	8	0	17	7:00 AM	0	0	0	0	0	7:00 AM	0	1	0	0	1
7:15 AM	4	1	8	2	15	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	6	2	8	1	17	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	3	4	17	2	26	7:45 AM	0	0	0	0	0	7:45 AM	0	0	3	0	3
8:00 AM	10	5	6	3	24	8:00 AM	0	0	0	0	0	8:00 AM	0	0	1	0	1
8:15 AM	5	5	5	1	16	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	3	0	6	3	12	8:30 AM	0	0	0	0	0	8:30 AM	0	1	2	0	3
8:45 AM	10	1	3	4	18	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	45	23	61	16	145	Count Total	0	0	0	0	0	Count Total	0	2	6	0	8
Peak Hour	24	16	36	7	83	Peak Hour	0	0	0	0	0	Peak Hour	0	0	4	0	4

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	11.1%	0.53
WB	9.2%	0.61
NB	23.0%	0.68
SB	68.8%	0.80
All	19.9%	0.29

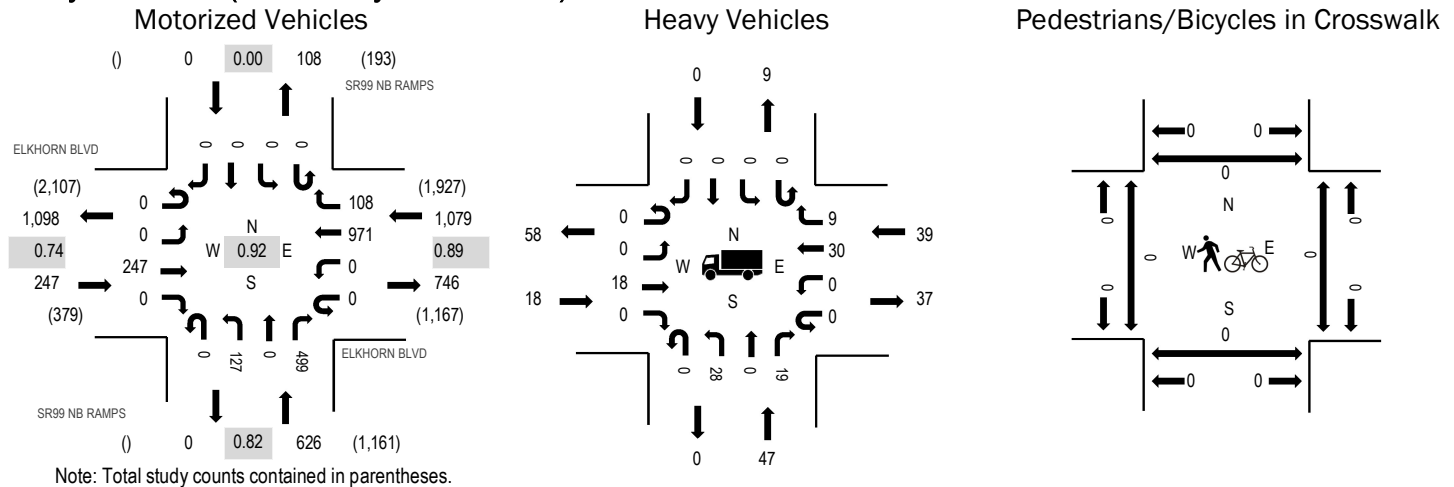
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				METRO AIR PKWY Northbound				METRO AIR PKWY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	4	2	11	15	0	7	84	16	0	94	31	4	0	1	8	0	277	849
7:15 AM	0	0	18	20	0	7	96	12	0	131	37	5	0	1	9	0	336	659
7:30 AM	0	1	14	19	0	12	37	5	0	38	15	3	0	2	4	0	150	387
7:45 AM	0	0	8	6	0	10	22	5	0	15	10	2	0	3	5	0	86	287
8:00 AM	0	0	13	5	0	10	9	2	0	16	17	7	0	1	7	0	87	267
8:15 AM	0	0	4	2	0	13	3	3	0	14	11	4	0	1	9	0	64	
8:30 AM	0	0	5	5	0	3	9	0	1	7	10	2	0	2	6	0	50	
8:45 AM	0	0	8	7	0	5	8	5	0	7	13	6	0	0	7	0	66	
Count Total	4	3	81	79	0	67	268	48	1	322	144	33	0	11	55	0	1,116	
Peak Hour	0	1	39	32	0	45	71	15	0	83	53	16	0	7	25	0	387	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	2	5	5	7	19	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	15	2	7	24	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	2	8	3	4	17	7:30 AM	0	0	1	0	1	7:30 AM	0	0	0	0	0
7:45 AM	3	5	0	8	16	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	3	12	7	5	27	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	10	2	5	17	8:15 AM	0	1	0	0	1	8:15 AM	0	0	0	0	0
8:30 AM	4	6	0	4	14	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	6	7	3	5	21	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	20	68	22	45	155	Count Total	0	1	1	0	2	Count Total	0	0	0	0	0
Peak Hour	8	35	12	22	77	Peak Hour	0	1	1	0	2	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	7.3%	0.74
WB	3.6%	0.89
NB	7.5%	0.82
SB	0.0%	0.00
All	5.3%	0.92

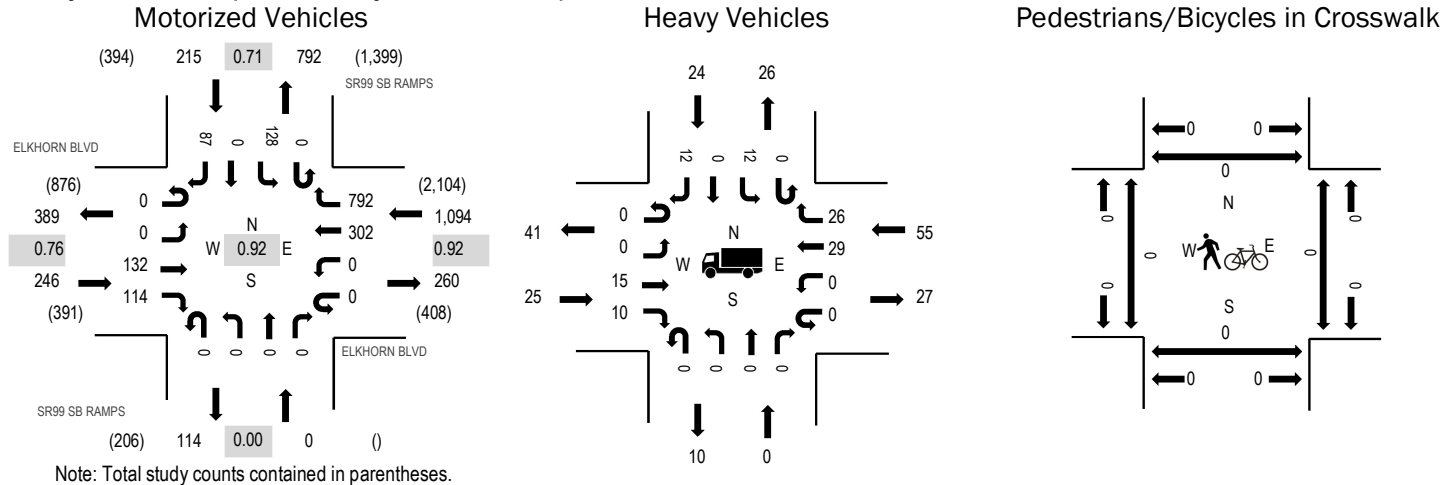
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				SR99 NB RAMPS Northbound				SR99 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	37	0	0	0	204	29	0	111	0	61	0	0	0	0	442	1,860
7:15 AM	0	0	35	0	0	0	243	19	0	66	0	66	0	0	0	0	429	1,943
7:30 AM	0	0	48	0	0	0	245	27	0	46	0	95	0	0	0	0	461	1,952
7:45 AM	0	0	49	0	0	0	272	30	0	24	0	153	0	0	0	0	528	1,832
8:00 AM	0	0	84	0	0	0	224	25	0	39	0	153	0	0	0	0	525	1,607
8:15 AM	0	0	66	0	0	0	230	26	0	18	0	98	0	0	0	0	438	
8:30 AM	0	0	21	0	0	0	187	24	0	37	0	72	0	0	0	0	341	
8:45 AM	0	0	39	0	0	0	129	13	0	32	0	90	0	0	0	0	303	
Count Total	0	0	379	0	0	0	1,734	193	0	373	0	788	0	0	0	0	3,467	
Peak Hour	0	0	247	0	0	0	971	108	0	127	0	499	0	0	0	0	1,952	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	3	14	10	0	27	7:00 AM	1	0	0	0	1	7:00 AM	0	0	0	0	0
7:15 AM	3	8	6	0	17	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	1	25	8	0	34	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	6	8	14	0	28	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	5	11	4	0	20	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	6	3	13	0	22	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	0	10	14	0	24	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	4	11	6	0	21	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	28	90	75	0	193	Count Total	1	0	0	0	1	Count Total	0	0	0	0	0
Peak Hour	18	47	39	0	104	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	10.2%	0.76
WB	5.0%	0.92
NB	0.0%	0.00
SB	11.2%	0.71
All	6.7%	0.92

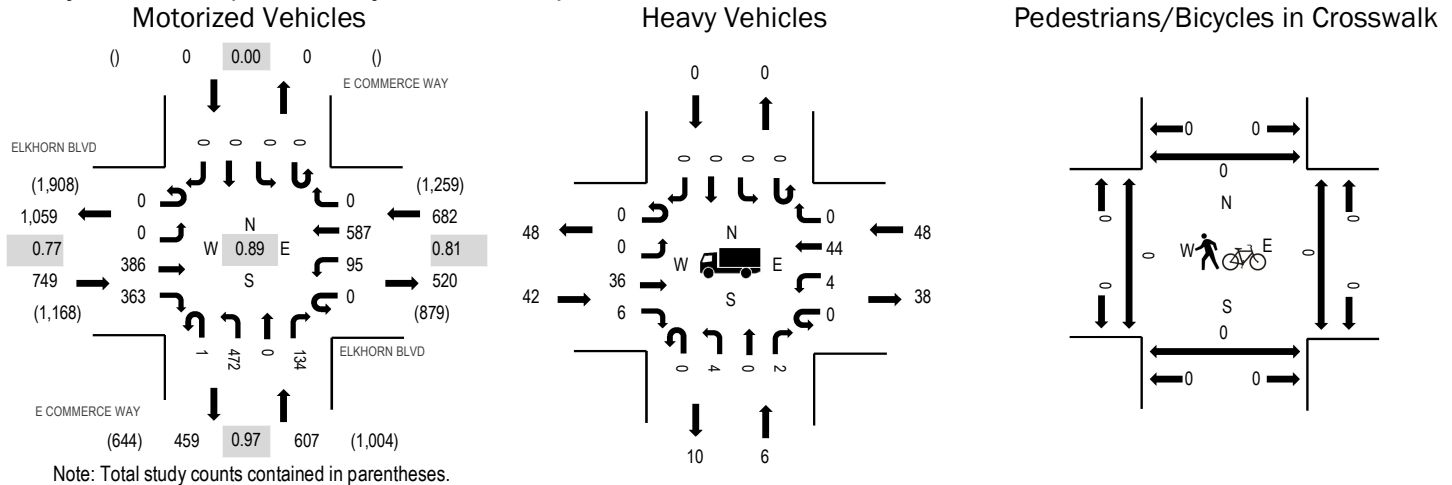
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				SR99 SB RAMPS Northbound				SR99 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	13	17	0	0	166	142	0	0	0	0	0	26	0	36	400	1,580
7:15 AM	0	0	13	32	0	0	132	177	0	0	0	0	0	26	0	35	415	1,601
7:30 AM	0	0	30	40	0	0	71	226	0	0	0	0	0	20	0	10	397	1,555
7:45 AM	0	0	19	23	0	0	64	225	0	0	0	0	0	32	0	5	368	1,438
8:00 AM	0	0	55	26	0	0	118	146	0	0	0	0	0	40	0	36	421	1,309
8:15 AM	0	0	28	25	0	0	49	195	0	0	0	0	0	36	0	36	369	
8:30 AM	0	0	9	19	0	0	62	168	0	0	0	0	0	16	0	6	280	
8:45 AM	0	0	18	24	0	0	43	120	0	0	0	0	0	27	0	7	239	
Count Total	0	0	185	206	0	0	705	1,399	0	0	0	0	0	223	0	171	2,889	
Peak Hour	0	0	132	114	0	0	302	792	0	0	0	0	0	128	0	87	1,555	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	5	0	19	7	31	7:00 AM	1	0	0	0	1	7:00 AM	0	0	0	0	0
7:15 AM	4	0	9	5	18	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	3	0	17	1	21	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	7	0	17	6	30	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	6	0	8	8	22	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	9	0	13	9	31	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	4	0	14	2	20	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	8	0	10	7	25	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	46	0	107	45	198	Count Total	1	0	0	0	1	Count Total	0	0	0	0	0
Peak Hour	25	0	55	24	104	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	5.6%	0.77
WB	7.0%	0.81
NB	1.0%	0.97
SB	0.0%	0.00
All	4.7%	0.89

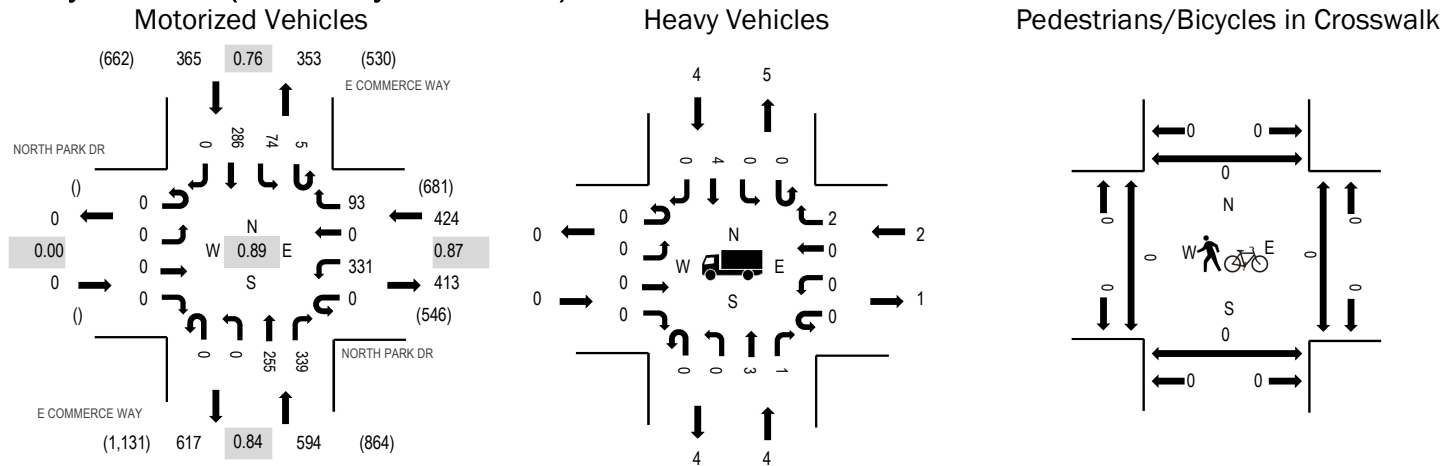
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	70	26	0	11	171	0	0	81	0	21	0	0	0	0	380	1,788
7:15 AM	0	0	69	33	0	12	141	0	1	108	0	22	0	0	0	0	386	1,969
7:30 AM	0	0	81	62	0	10	150	0	1	116	0	29	0	0	0	0	449	2,038
7:45 AM	0	0	120	85	0	25	186	0	0	117	0	40	0	0	0	0	573	1,925
8:00 AM	0	0	110	134	0	29	137	0	0	110	0	41	0	0	0	0	561	1,643
8:15 AM	0	0	75	82	0	31	114	0	0	129	0	24	0	0	0	0	455	
8:30 AM	0	0	60	33	0	14	135	0	0	74	0	20	0	0	0	0	336	
8:45 AM	0	0	81	47	0	8	85	0	0	54	0	16	0	0	0	0	291	
Count Total	0	0	666	502	0	140	1,119	0	2	789	0	213	0	0	0	0	3,431	
Peak Hour	0	0	386	363	0	95	587	0	1	472	0	134	0	0	0	0	2,038	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	7	2	8	0	17	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	8	0	7	0	15	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	12	2	8	0	22	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	11	2	19	0	32	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	11	1	7	0	19	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	8	1	14	0	23	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	5	2	16	0	23	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	8	1	6	0	15	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	70	11	85	0	166	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	42	6	48	0	96	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	0.5%	0.87
NB	0.7%	0.84
SB	1.1%	0.76
All	0.7%	0.89

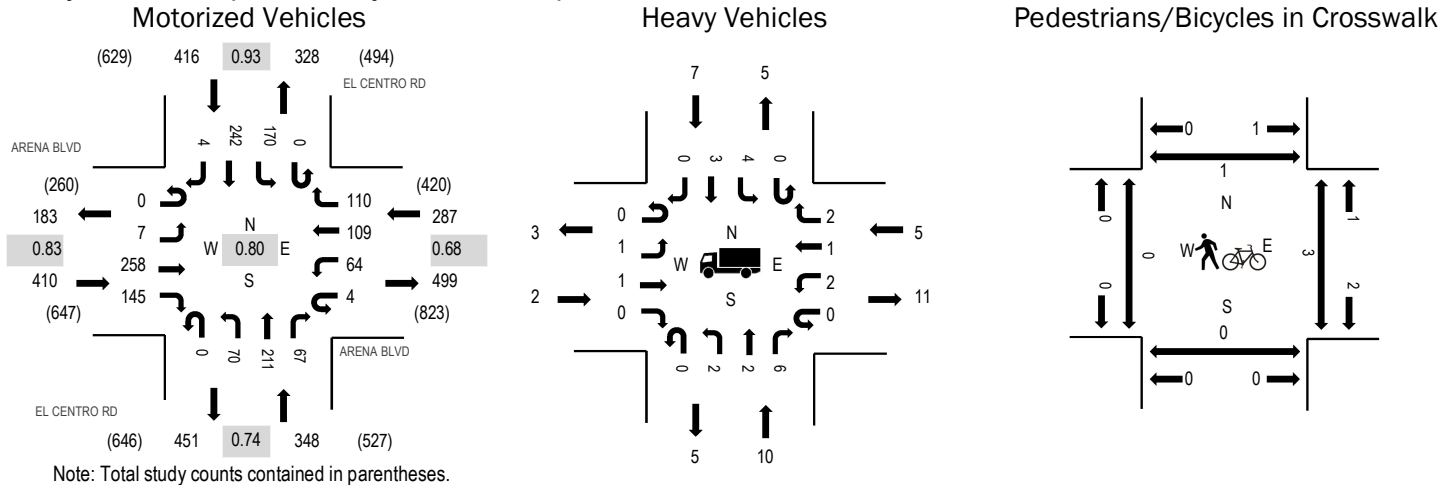
Traffic Counts - Motorized Vehicles

Interval Start Time	NORTH PARK DR Eastbound				NORTH PARK DR Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	0	0	0	53	0	3	0	0	39	16	0	4	61	0	176	1,128
7:15 AM	0	0	0	0	0	74	0	6	0	0	16	30	0	10	87	0	223	1,279
7:30 AM	0	0	0	0	0	75	0	7	0	0	51	88	1	18	101	0	341	1,383
7:45 AM	0	0	0	0	0	84	0	38	0	0	71	106	2	26	61	0	388	1,247
8:00 AM	0	0	0	0	0	91	0	29	0	0	73	64	2	15	53	0	327	1,079
8:15 AM	0	0	0	0	0	81	0	19	0	0	60	81	0	15	71	0	327	
8:30 AM	0	0	0	0	0	60	0	6	0	0	50	38	0	3	48	0	205	
8:45 AM	0	0	0	0	0	52	0	3	0	0	54	27	0	5	79	0	220	
Count Total	0	0	0	0	0	570	0	111	0	0	414	450	5	96	561	0	2,207	
Peak Hour	0	0	0	0	0	331	0	93	0	0	255	339	5	74	286	0	1,383	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	1	0	0	1	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	1	1	1	3	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	1	0	1	2	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	0	1	1	2	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	0	1	1	1	3	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	2	0	1	3	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	0	2	0	1	3	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	0	1	2	1	4	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	0	9	5	7	21	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	4	2	4	10	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.5%	0.83
WB	1.7%	0.68
NB	2.9%	0.74
SB	1.7%	0.93
All	1.6%	0.80

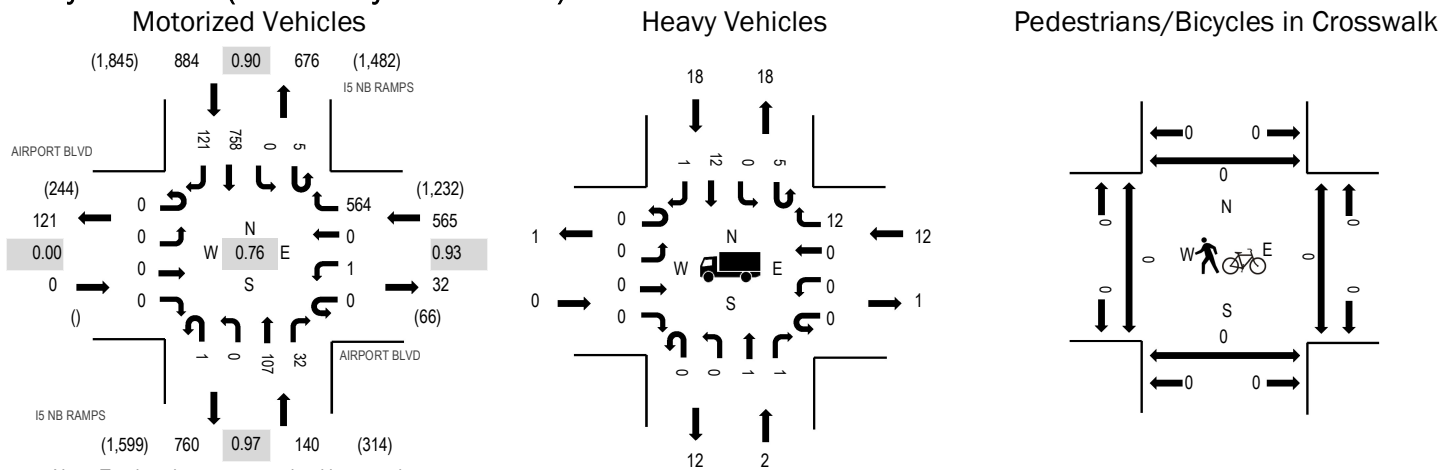
Traffic Counts - Motorized Vehicles

Interval Start Time	ARENA BLVD Eastbound				ARENA BLVD Westbound				EL CENTRO RD Northbound				EL CENTRO RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	44	9	2	5	8	7	0	3	20	6	0	17	16	1	138	1,190
7:15 AM	0	0	42	24	1	5	9	12	0	2	36	11	0	32	26	0	200	1,359
7:30 AM	0	2	75	35	0	16	28	29	0	17	57	26	0	46	63	1	395	1,461
7:45 AM	0	2	64	57	2	25	38	40	0	29	68	20	0	46	66	0	457	1,302
8:00 AM	0	1	71	29	0	11	26	13	0	13	42	12	0	38	51	0	307	1,033
8:15 AM	0	2	48	24	2	12	17	28	0	11	44	9	0	40	62	3	302	
8:30 AM	0	2	51	17	0	14	22	11	0	6	31	14	0	28	38	2	236	
8:45 AM	1	2	30	15	1	6	18	12	0	4	33	13	0	32	20	1	188	
Count Total	1	11	425	210	8	94	166	152	0	85	331	111	0	279	342	8	2,223	
Peak Hour	0	7	258	145	4	64	109	110	0	70	211	67	0	170	242	4	1,461	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	1	1	1	3	7:00 AM	0	0	0	0	0	7:00 AM	0	1	0	1	2
7:15 AM	1	1	0	2	4	7:15 AM	1	0	0	0	1	7:15 AM	0	0	0	0	0
7:30 AM	2	5	3	1	11	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	0	3	0	1	4	7:45 AM	0	0	0	1	1	7:45 AM	0	0	1	1	2
8:00 AM	0	1	2	5	8	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	1	0	0	1	8:15 AM	0	0	0	0	0	8:15 AM	0	0	2	0	2
8:30 AM	0	1	1	1	3	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	2	3	2	0	7	8:45 AM	0	0	0	0	0	8:45 AM	0	2	0	0	2
Count Total	5	16	9	11	41	Count Total	1	0	0	1	2	Count Total	0	3	3	2	8
Peak Hour	2	10	5	7	24	Peak Hour	0	0	0	1	1	Peak Hour	0	0	3	1	4

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	2.1%	0.93
NB	1.4%	0.97
SB	2.0%	0.90
All	2.0%	0.76

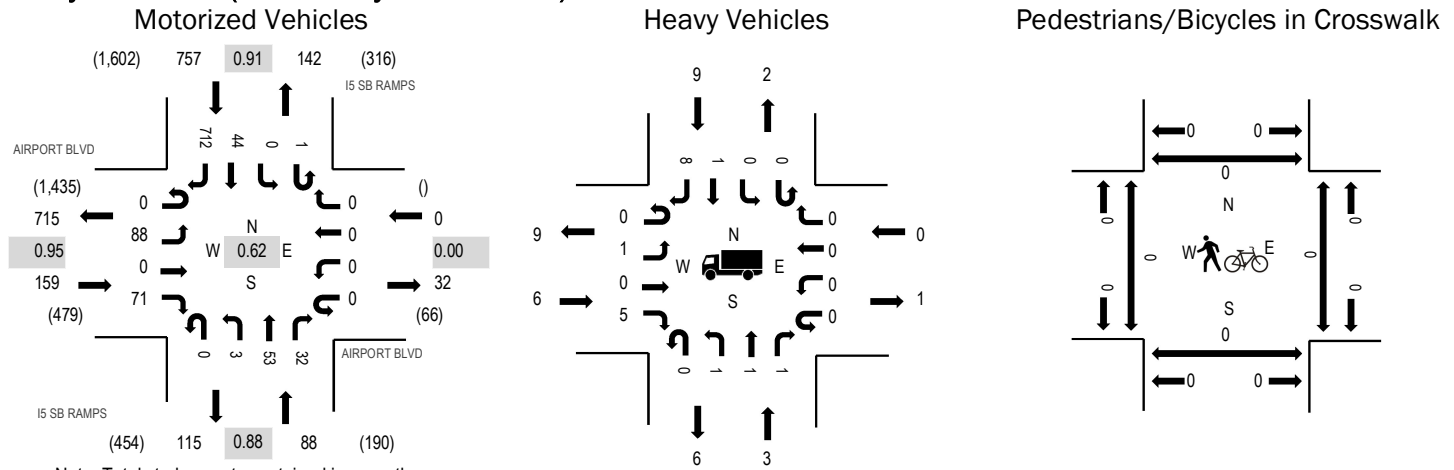
Traffic Counts - Motorized Vehicles

Interval Start Time	AIRPORT BLVD Eastbound				AIRPORT BLVD Westbound				I5 NB RAMPS Northbound				I5 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	0	0	0	0	0	171	7	0	35	13	1	0	249	47	523	1,802
4:15 PM	0	0	0	0	0	1	0	156	0	0	24	5	1	0	187	20	394	1,704
4:30 PM	0	0	0	0	0	0	0	166	1	0	41	8	3	0	198	24	441	1,718
4:45 PM	0	0	0	0	0	0	0	173	0	0	32	8	3	0	196	32	444	1,650
5:00 PM	0	0	0	0	0	1	0	144	0	0	31	4	3	0	207	35	425	1,589
5:15 PM	0	0	0	0	0	0	0	152	0	0	28	8	2	0	182	36	408	
5:30 PM	0	0	0	0	0	0	0	128	0	0	24	11	0	0	186	24	373	
5:45 PM	0	0	0	0	0	0	0	140	1	0	24	9	0	0	183	26	383	
Count Total	0	0	0	0	0	2	0	1,230	9	0	239	66	13	0	1,588	244	3,391	
Peak Hour	0	0	0	0	0	1	0	564	1	0	107	32	5	0	758	121	1,589	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	4	2	2	8	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	0	2	2	4	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	6	2	7	15	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	4	9	13	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	0	0	1	4	5	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	1	4	5	10	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	3	4	7	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	1	4	5	10	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	0	12	22	38	72	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	2	12	18	32	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	3.8%	0.95
WB	0.0%	0.00
NB	3.4%	0.88
SB	1.2%	0.91
All	1.8%	0.62

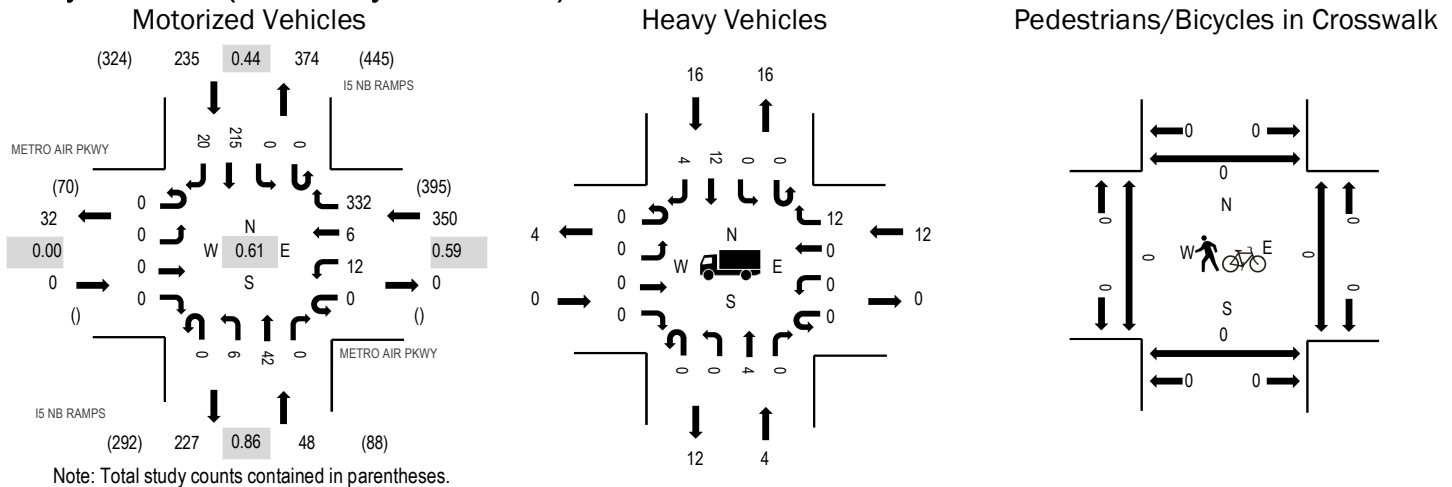
Traffic Counts - Motorized Vehicles

Interval Start Time	AIRPORT BLVD Eastbound				AIRPORT BLVD Westbound				I5 SB RAMPS Northbound			I5 SB RAMPS Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru			Right
4:00 PM	0	28	0	80	0	0	0	0	0	1	25	13	1	0	58	201	407	1,267
4:15 PM	1	22	0	61	0	0	0	0	0	1	9	5	0	0	30	157	286	1,126
4:30 PM	0	30	0	48	0	0	0	0	0	1	17	8	1	0	27	162	294	1,080
4:45 PM	0	27	0	23	0	0	0	0	0	0	14	8	0	0	12	196	280	1,044
5:00 PM	0	24	0	18	0	0	0	0	0	2	11	4	1	0	16	190	266	1,004
5:15 PM	0	23	0	15	0	0	0	0	0	0	13	8	0	0	10	171	240	
5:30 PM	0	22	0	19	0	0	0	0	0	1	13	11	0	0	14	178	258	
5:45 PM	0	19	0	19	0	0	0	0	0	0	16	9	0	0	4	173	240	
Count Total	1	195	0	283	0	0	0	0	0	6	118	66	3	0	171	1,428	2,271	
Peak Hour	0	88	0	71	0	0	0	0	0	3	53	32	1	0	44	712	1,004	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	6	0	1	7	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	4	0	0	1	5	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	5	3	0	4	12	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	6	6	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	2	1	0	1	4	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	3	0	0	3	6	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	1	1	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	1	2	0	4	7	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	15	12	0	21	48	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	6	3	0	9	18	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.0%	0.00
WB	3.4%	0.59
NB	8.3%	0.86
SB	6.8%	0.44
All	5.1%	0.61

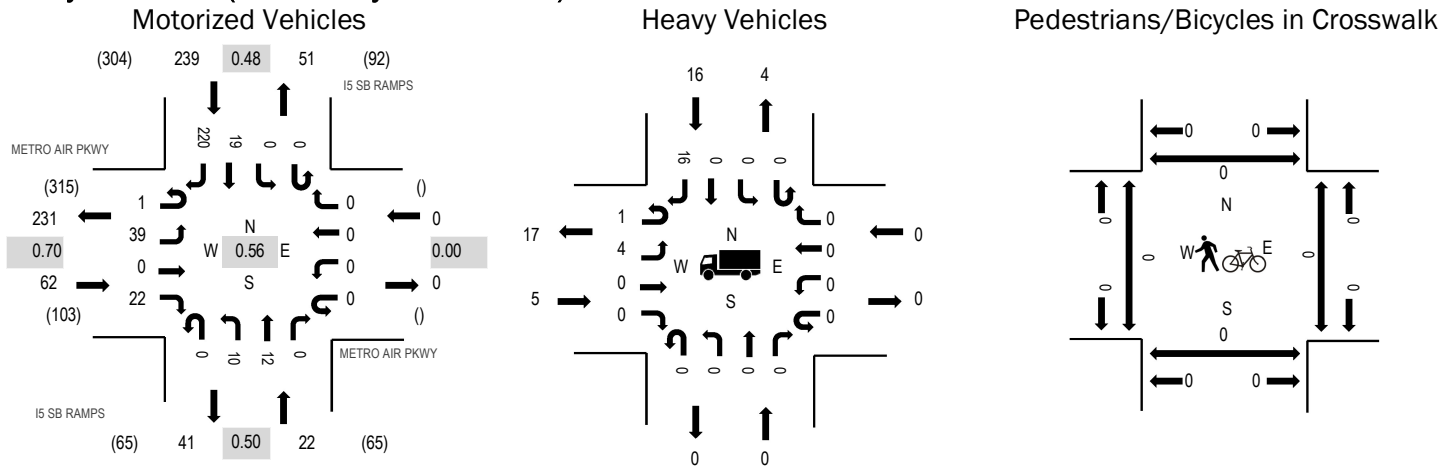
Traffic Counts - Motorized Vehicles

Interval Start Time	METRO AIR PKWY Eastbound				METRO AIR PKWY Westbound				I5 NB RAMPS Northbound				I5 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	0	0	0	1	1	4	0	2	5	0	0	0	16	7	36	174
4:15 PM	0	0	0	0	0	2	0	8	0	1	11	0	0	0	14	10	46	207
4:30 PM	0	0	0	0	0	0	0	11	0	1	9	0	0	0	20	3	44	256
4:45 PM	0	0	0	0	0	1	2	15	0	3	8	0	0	0	11	8	48	471
5:00 PM	0	0	0	0	0	4	1	27	0	3	6	0	0	0	25	3	69	633
5:15 PM	0	0	0	0	0	3	3	52	0	1	13	0	0	0	18	5	95	
5:30 PM	0	0	0	0	0	1	1	109	0	0	13	0	0	0	123	12	259	
5:45 PM	0	0	0	0	0	4	1	144	0	2	10	0	0	0	49	0	210	
Count Total	0	0	0	0	0	16	9	370	0	13	75	0	0	0	276	48	807	
Peak Hour	0	0	0	0	0	12	6	332	0	6	42	0	0	0	215	20	633	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	0	1	1	2	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	1	2	5	8	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	1	0	0	1	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	1	1	2	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	0	1	2	3	6	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	1	2	2	5	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	1	3	6	10	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	1	5	5	11	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	0	6	16	23	45	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	4	12	16	32	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	8.1%	0.70
WB	0.0%	0.00
NB	0.0%	0.50
SB	6.7%	0.48
All	6.5%	0.56

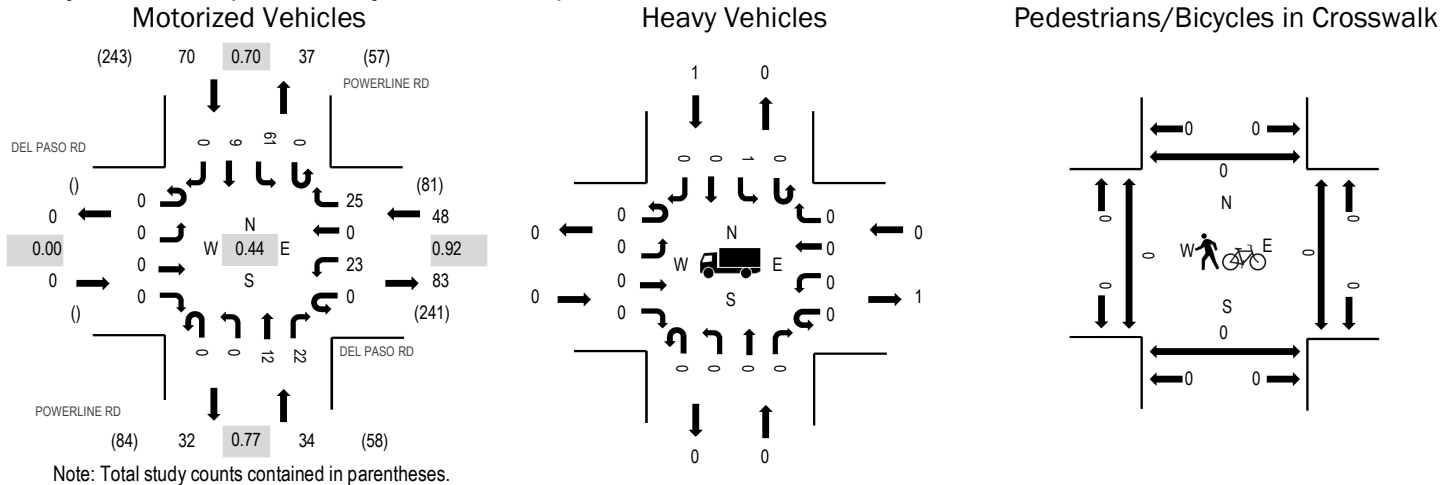
Traffic Counts - Motorized Vehicles

Interval Start Time	METRO AIR PKWY Eastbound				METRO AIR PKWY Westbound				I5 SB RAMPS Northbound				I5 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	5	0	5	0	0	0	0	0	7	3	0	0	0	2	15	37	149
4:15 PM	0	7	0	3	0	0	0	0	0	9	3	0	0	0	2	14	38	159
4:30 PM	0	6	0	3	0	0	0	0	0	4	5	0	0	0	3	17	38	176
4:45 PM	0	8	0	4	0	0	0	0	0	8	4	0	0	0	2	10	36	283
5:00 PM	1	9	0	5	0	0	0	0	0	1	2	0	0	0	2	27	47	323
5:15 PM	0	9	0	13	0	0	0	0	0	0	3	0	0	0	6	24	55	
5:30 PM	0	12	0	3	0	0	0	0	0	2	3	0	0	0	4	121	145	
5:45 PM	0	9	0	1	0	0	0	0	0	7	4	0	0	0	7	48	76	
Count Total	1	65	0	37	0	0	0	0	0	38	27	0	0	0	28	276	472	
Peak Hour	1	39	0	22	0	0	0	0	0	10	12	0	0	0	19	220	323	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	1	0	2	3	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	1	0	0	4	5	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	1	0	0	0	1	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	1	1	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	3	0	0	4	7	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	1	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	1	0	0	3	4	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	1	0	0	8	9	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	7	1	0	23	31	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	5	0	0	16	21	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.0%	0.00
WB	0.0%	0.92
NB	0.0%	0.77
SB	1.4%	0.70
All	0.7%	0.44

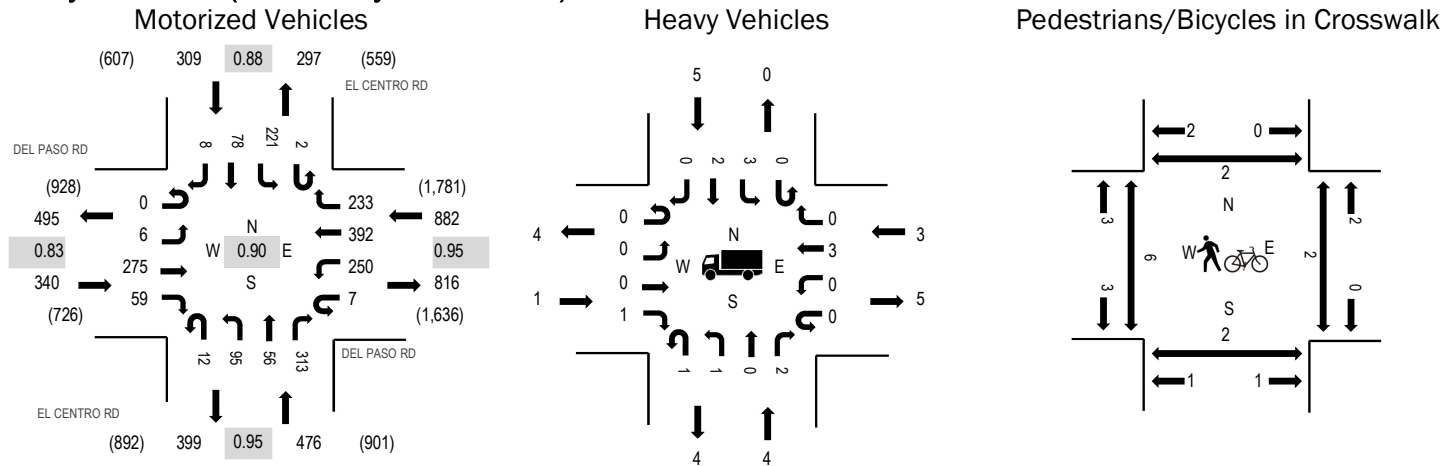
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				POWERLINE RD Northbound				POWERLINE RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	0	0	0	5	0	4	0	0	2	5	0	56	14	0	86	230
4:15 PM	0	0	0	0	0	4	0	3	0	0	1	4	0	36	10	0	58	180
4:30 PM	0	0	0	0	0	5	0	5	0	0	2	7	0	30	4	0	53	159
4:45 PM	0	0	0	0	0	4	0	3	0	0	0	3	0	17	6	0	33	152
5:00 PM	0	0	0	0	0	6	0	5	0	0	1	10	0	14	0	0	36	152
5:15 PM	0	0	0	0	0	5	0	7	0	0	5	2	0	15	3	0	37	
5:30 PM	0	0	0	0	0	6	0	6	0	0	2	7	0	23	2	0	46	
5:45 PM	0	0	0	0	0	6	0	7	0	0	4	3	0	9	4	0	33	
Count Total	0	0	0	0	0	41	0	40	0	0	17	41	0	200	43	0	382	
Peak Hour	0	0	0	0	0	23	0	25	0	0	12	22	0	61	9	0	152	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	0	1	1	2	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	1	1	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	1	0	1	4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	1	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	0	0	1	3	4	Count Total	0	0	1	0	1	Count Total	0	0	0	0	0
Peak Hour	0	0	0	1	1	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.3%	0.83
WB	0.3%	0.95
NB	0.8%	0.95
SB	1.6%	0.88
All	0.6%	0.90

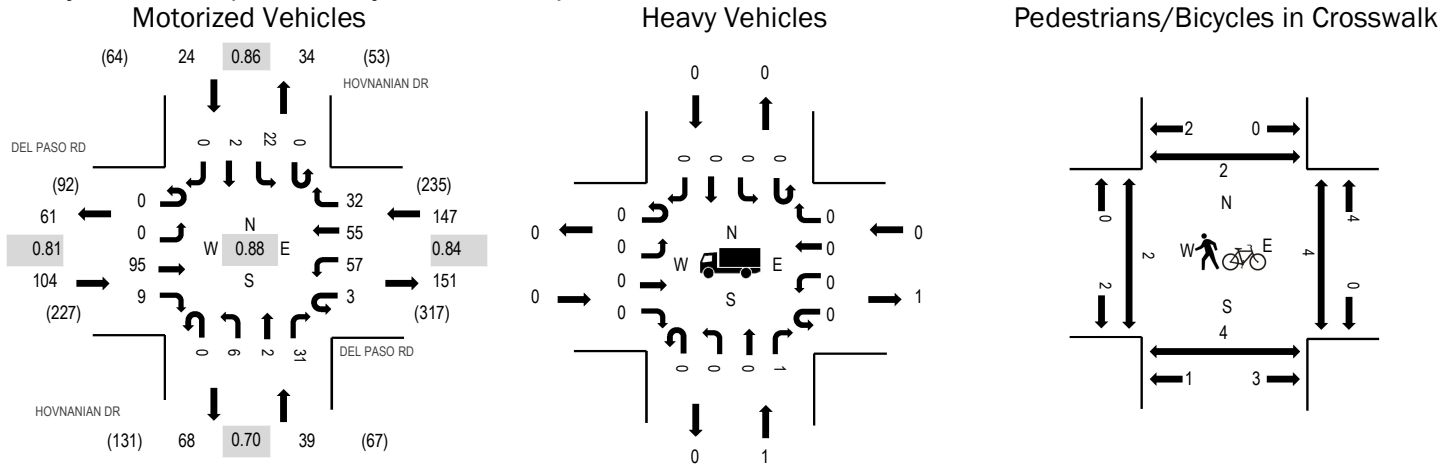
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				EL CENTRO RD Northbound				EL CENTRO RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	95	18	3	101	89	58	5	19	9	93	0	44	19	4	557	2,008
4:15 PM	0	0	72	31	6	73	80	45	5	18	10	66	0	61	21	0	488	1,943
4:30 PM	0	2	80	17	3	78	86	38	3	21	13	79	0	45	21	1	487	1,977
4:45 PM	0	0	56	15	1	68	97	73	3	17	14	50	0	66	15	1	476	2,000
5:00 PM	0	1	67	14	1	56	99	60	5	19	18	70	0	59	23	0	492	2,007
5:15 PM	0	0	68	15	4	72	101	55	1	22	9	87	0	67	18	3	522	
5:30 PM	0	2	81	20	1	61	95	60	4	27	14	80	1	43	18	3	510	
5:45 PM	0	3	59	10	1	61	97	58	2	27	15	76	1	52	19	2	483	
Count Total	0	8	578	140	20	570	744	447	28	170	102	601	2	437	154	14	4,015	
Peak Hour	0	6	275	59	7	250	392	233	12	95	56	313	2	221	78	8	2,007	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	1	4	7	1	13	4:00 PM	2	0	0	0	2	4:00 PM	1	3	0	0	4
4:15 PM	2	2	2	2	8	4:15 PM	0	0	0	1	1	4:15 PM	0	4	0	0	4
4:30 PM	0	1	0	1	2	4:30 PM	1	0	0	0	1	4:30 PM	0	0	0	1	1
4:45 PM	1	0	0	0	1	4:45 PM	1	0	0	0	1	4:45 PM	0	1	1	1	3
5:00 PM	0	0	1	1	2	5:00 PM	1	0	0	0	1	5:00 PM	1	0	1	1	3
5:15 PM	1	1	1	0	3	5:15 PM	0	0	0	0	0	5:15 PM	0	1	0	0	1
5:30 PM	0	1	1	1	3	5:30 PM	0	1	0	0	1	5:30 PM	2	0	0	0	2
5:45 PM	0	2	0	3	5	5:45 PM	1	0	0	0	1	5:45 PM	3	1	1	1	6
Count Total	5	11	12	9	37	Count Total	6	1	0	1	8	Count Total	7	10	3	4	24
Peak Hour	1	4	3	5	13	Peak Hour	2	1	0	0	3	Peak Hour	6	2	2	2	12

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.81
WB	0.0%	0.84
NB	2.6%	0.70
SB	0.0%	0.86
All	0.3%	0.88

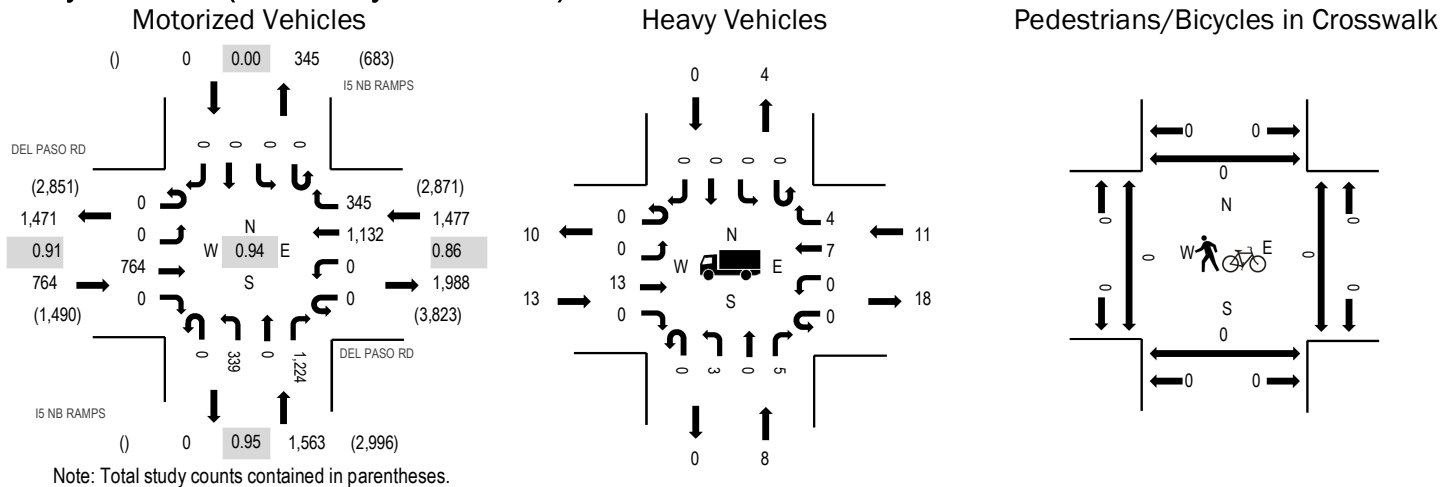
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				HOVNIANIAN DR Northbound				HOVNIANIAN DR Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	44	2	1	11	7	3	0	0	0	3	0	13	1	0	85	279
4:15 PM	0	2	25	2	1	10	2	3	0	0	0	6	0	9	0	0	60	262
4:30 PM	0	0	22	1	1	12	6	1	0	3	4	6	0	7	3	2	68	276
4:45 PM	0	1	18	6	0	14	11	5	0	0	0	6	0	4	1	0	66	291
5:00 PM	0	0	22	4	1	17	7	4	0	2	0	6	0	5	0	0	68	314
5:15 PM	0	0	16	2	1	15	9	11	0	3	1	10	0	5	1	0	74	
5:30 PM	0	0	31	1	1	8	21	8	0	0	0	7	0	6	0	0	83	
5:45 PM	0	0	26	2	0	17	18	9	0	1	1	8	0	6	1	0	89	
Count Total	0	3	204	20	6	104	81	44	0	9	6	52	0	55	7	2	593	
Peak Hour	0	0	95	9	3	57	55	32	0	6	2	31	0	22	2	0	314	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	2	0	1	0	3	4:00 PM	3	0	0	0	3	4:00 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1	4:15 PM	2	0	0	0	2	4:15 PM	0	1	0	0	1
4:30 PM	0	1	0	1	2	4:30 PM	1	0	0	0	1	4:30 PM	0	2	0	0	2
4:45 PM	0	0	0	0	0	4:45 PM	1	0	1	0	2	4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0	5:00 PM	2	0	0	0	2	5:00 PM	0	0	3	0	3
5:15 PM	0	1	0	0	1	5:15 PM	2	0	0	0	2	5:15 PM	0	1	1	0	2
5:30 PM	0	0	0	0	0	5:30 PM	2	0	0	1	3	5:30 PM	2	0	0	2	4
5:45 PM	0	0	0	0	0	5:45 PM	1	0	0	0	1	5:45 PM	0	3	0	0	3
Count Total	2	2	2	1	7	Count Total	14	0	1	1	16	Count Total	2	7	4	2	15
Peak Hour	0	1	0	0	1	Peak Hour	7	0	0	1	8	Peak Hour	2	4	4	2	12

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	1.7%	0.91
WB	0.7%	0.86
NB	0.5%	0.95
SB	0.0%	0.00
All	0.8%	0.94

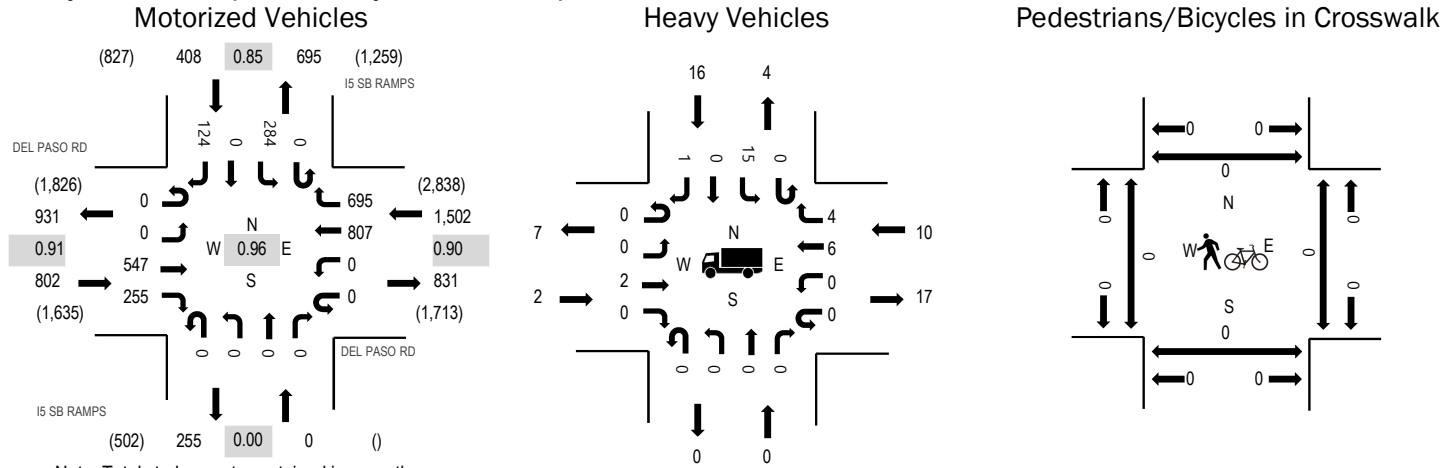
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				I5 NB RAMPS Northbound				I5 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	188	0	0	0	262	75	0	82	0	268	0	0	0	0	875	3,553
4:15 PM	0	0	179	0	0	0	271	91	0	65	0	266	0	0	0	0	872	3,687
4:30 PM	0	0	196	0	0	0	253	89	0	73	0	276	0	0	0	0	887	3,827
4:45 PM	0	0	163	0	0	0	270	83	0	104	0	299	0	0	0	0	919	3,851
5:00 PM	0	0	180	0	0	0	333	98	0	91	0	307	0	0	0	0	1,009	3,804
5:15 PM	0	0	210	0	0	0	289	103	0	81	0	329	0	0	0	0	1,012	
5:30 PM	0	0	196	0	0	0	262	80	0	76	0	297	0	0	0	0	911	
5:45 PM	0	0	178	0	0	0	248	64	0	91	0	291	0	0	0	0	872	
Count Total	0	0	1,490	0	0	0	2,188	683	0	663	0	2,333	0	0	0	0	7,357	
Peak Hour	0	0	764	0	0	0	1,132	345	0	339	0	1,224	0	0	0	0	3,804	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	7	2	6	0	15	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	6	4	1	0	11	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	1	4	3	0	8	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	4	3	1	0	8	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	2	1	5	0	8	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	6	3	1	0	10	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	3	1	4	0	8	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	2	3	1	0	6	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	31	21	22	0	74	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	13	8	11	0	32	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.2%	0.91
WB	0.7%	0.90
NB	0.0%	0.00
SB	3.9%	0.85
All	1.0%	0.96

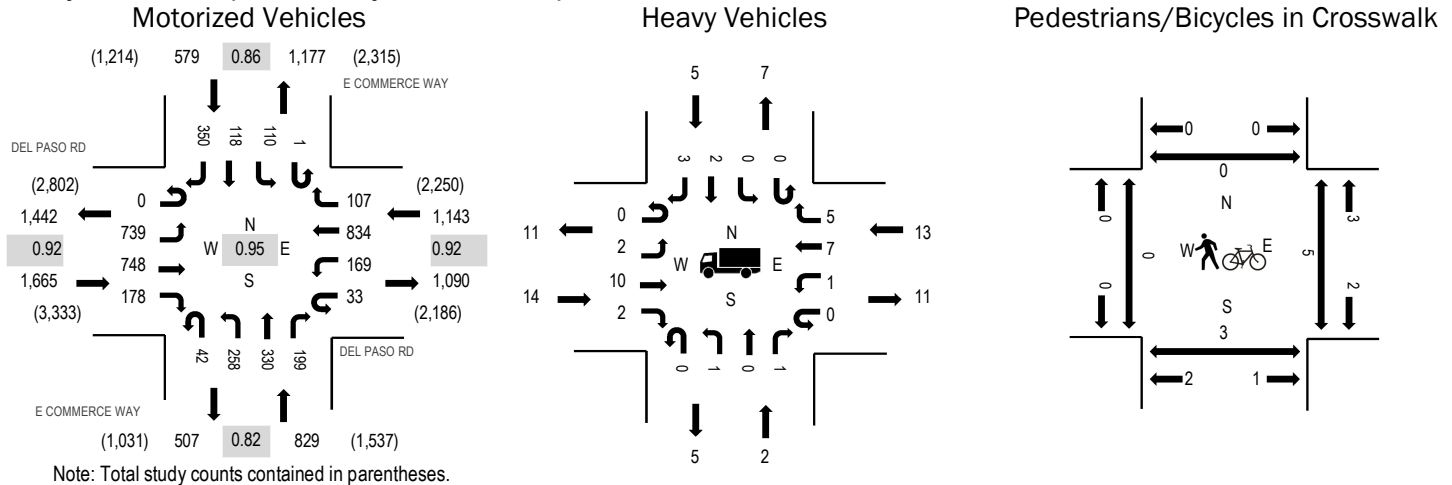
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				I5 SB RAMPS Northbound				I5 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	155	81	0	0	217	129	0	0	0	0	0	68	0	32	682	2,599
4:15 PM	0	0	140	66	0	0	184	151	0	0	0	0	0	69	0	31	641	2,626
4:30 PM	0	0	156	42	0	0	168	154	0	0	0	0	0	90	0	33	643	2,681
4:45 PM	0	0	117	55	0	0	210	165	0	0	0	0	0	54	0	32	633	2,712
5:00 PM	0	0	142	58	0	0	216	201	0	0	0	0	0	71	0	21	709	2,701
5:15 PM	0	0	148	73	0	0	191	174	0	0	0	0	0	73	0	37	696	
5:30 PM	0	0	140	69	0	0	190	155	0	0	0	0	0	86	0	34	674	
5:45 PM	0	0	135	58	0	0	203	130	0	0	0	0	0	69	0	27	622	
Count Total	0	0	1,133	502	0	0	1,579	1,259	0	0	0	0	0	580	0	247	5,300	
Peak Hour	0	0	547	255	0	0	807	695	0	0	0	0	0	284	0	124	2,712	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	4	0	6	8	18	4:00 PM	0	0	1	0	1	4:00 PM	0	0	0	0	0
4:15 PM	2	0	6	5	13	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	1	0	2	2	5	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	1	0	1	4	6	4:45 PM	0	0	1	0	1	4:45 PM	0	0	0	0	0
5:00 PM	1	0	4	0	5	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	0	2	8	10	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	3	4	7	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	4	0	2	0	6	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	13	0	26	31	70	Count Total	0	0	2	0	2	Count Total	0	0	0	0	0
Peak Hour	2	0	10	16	28	Peak Hour	0	0	1	0	1	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.8%	0.92
WB	1.1%	0.92
NB	0.2%	0.82
SB	0.9%	0.86
All	0.8%	0.95

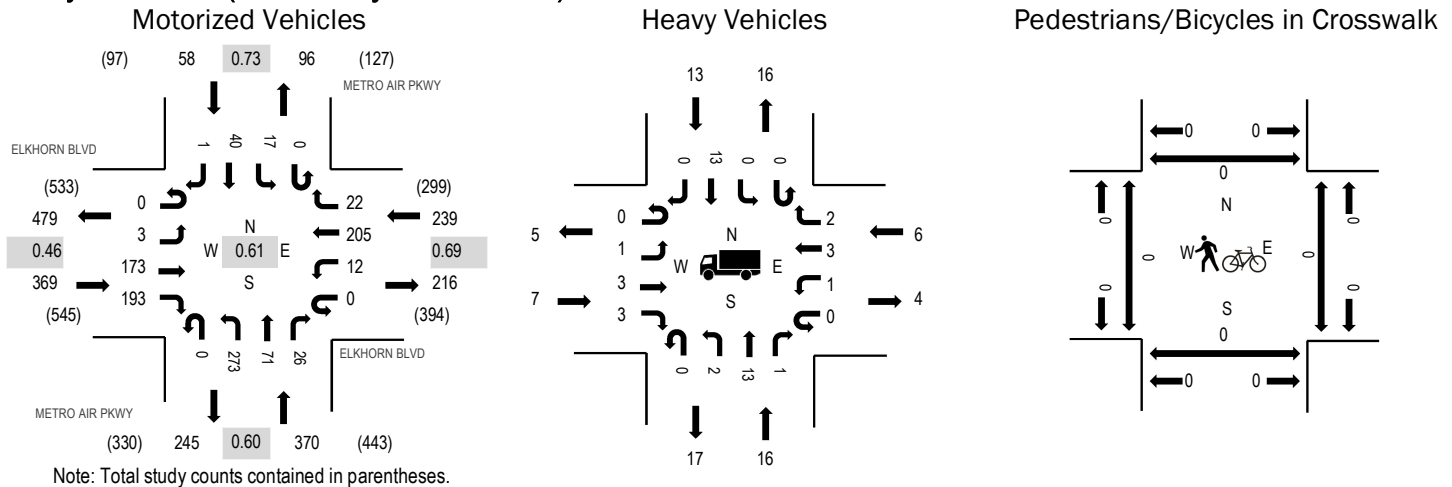
Traffic Counts - Motorized Vehicles

Interval Start Time	DEL PASO RD Eastbound				DEL PASO RD Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	170	196	39	15	43	180	19	12	45	59	53	0	21	33	105	990	4,118
4:15 PM	0	159	182	53	8	43	203	34	6	57	77	54	0	33	30	90	1,029	4,235
4:30 PM	2	222	192	46	22	46	166	27	10	59	88	36	0	25	38	99	1,078	4,318
4:45 PM	2	181	181	43	20	40	210	31	7	49	71	25	0	33	35	93	1,021	4,301
5:00 PM	0	188	170	34	10	43	213	27	11	91	106	45	0	31	37	101	1,107	4,216
5:15 PM	0	205	201	45	6	47	235	22	11	64	77	50	1	26	35	87	1,112	
5:30 PM	0	188	200	42	5	42	215	37	9	46	82	51	0	30	24	90	1,061	
5:45 PM	0	158	177	57	12	37	171	21	11	57	65	53	0	23	22	72	936	
Count Total	4	1,471	1,499	359	98	341	1,593	218	77	468	625	367	1	222	254	737	8,334	
Peak Hour	0	739	748	178	33	169	834	107	42	258	330	199	1	110	118	350	4,216	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	8	1	4	2	15	4:00 PM	0	0	0	0	0	4:00 PM	0	0	3	0	3
4:15 PM	6	1	3	0	10	4:15 PM	0	0	0	0	0	4:15 PM	0	0	3	0	3
4:30 PM	4	3	2	1	10	4:30 PM	0	0	0	0	0	4:30 PM	0	0	1	0	1
4:45 PM	5	0	1	2	8	4:45 PM	0	0	1	0	1	4:45 PM	0	0	2	0	2
5:00 PM	2	0	3	2	7	5:00 PM	0	0	0	0	0	5:00 PM	0	1	1	0	2
5:15 PM	5	0	1	1	7	5:15 PM	0	0	0	0	0	5:15 PM	0	0	2	0	2
5:30 PM	4	2	9	1	16	5:30 PM	0	0	0	0	0	5:30 PM	0	1	1	0	2
5:45 PM	3	0	0	1	4	5:45 PM	0	0	0	0	0	5:45 PM	0	1	1	0	2
Count Total	37	7	23	10	77	Count Total	0	0	1	0	1	Count Total	0	3	14	0	17
Peak Hour	14	2	13	5	34	Peak Hour	0	0	0	0	0	Peak Hour	0	3	5	0	8

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	1.9%	0.46
WB	2.5%	0.69
NB	4.3%	0.60
SB	22.4%	0.73
All	4.1%	0.61

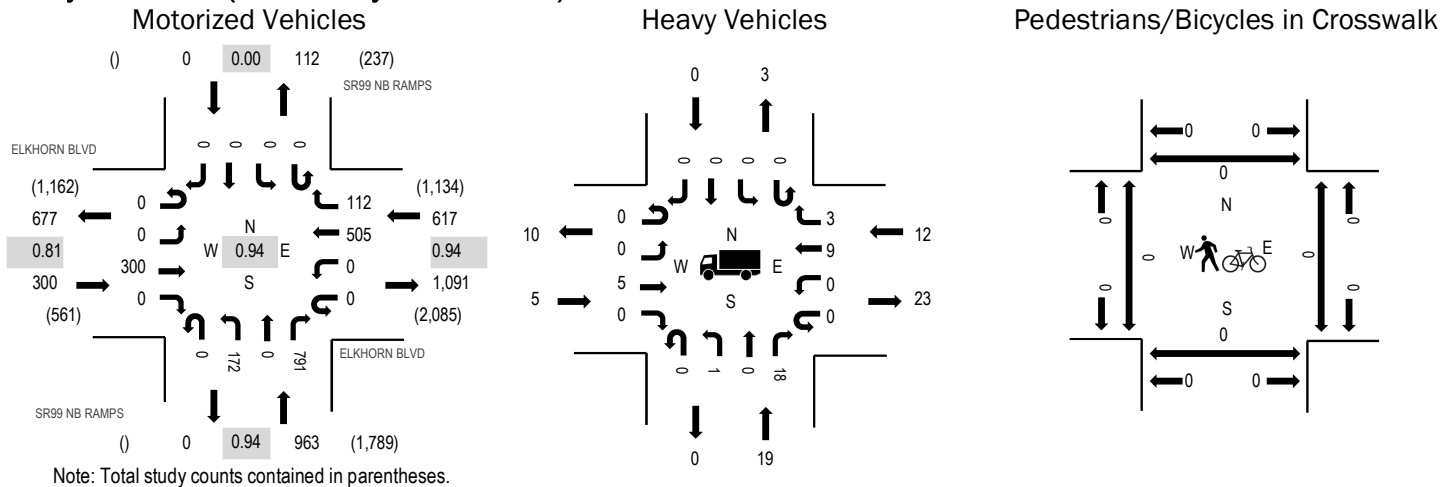
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				METRO AIR PKWY Northbound				METRO AIR PKWY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	44	15	0	4	7	1	0	1	4	7	0	3	6	0	92	348
4:15 PM	0	4	28	3	0	6	8	1	0	4	4	10	0	1	8	0	77	365
4:30 PM	0	1	28	13	0	6	9	3	0	5	7	9	0	7	8	0	96	442
4:45 PM	0	2	30	8	0	4	9	2	0	11	2	9	0	2	4	0	83	768
5:00 PM	0	0	24	17	0	3	22	2	0	24	7	2	0	1	7	0	109	1,036
5:15 PM	0	1	20	16	0	5	32	4	0	43	14	9	0	3	7	0	154	
5:30 PM	0	1	82	119	0	3	75	6	0	94	14	8	0	9	11	0	422	
5:45 PM	0	1	47	41	0	1	76	10	0	112	36	7	0	4	15	1	351	
Count Total	0	10	303	232	0	32	238	29	0	294	88	61	0	30	66	1	1,384	
Peak Hour	0	3	173	193	0	12	205	22	0	273	71	26	0	17	40	1	1,036	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	2	0	2	1	5	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	2	0	5	7	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	1	1	2	3	7	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	1	1	1	0	3	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	2	3	2	4	11	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	3	3	3	0	9	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	2	4	1	4	11	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	6	0	5	11	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	11	20	11	22	64	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	7	16	6	13	42	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	1.7%	0.81
WB	1.9%	0.94
NB	2.0%	0.94
SB	0.0%	0.00
All	1.9%	0.94

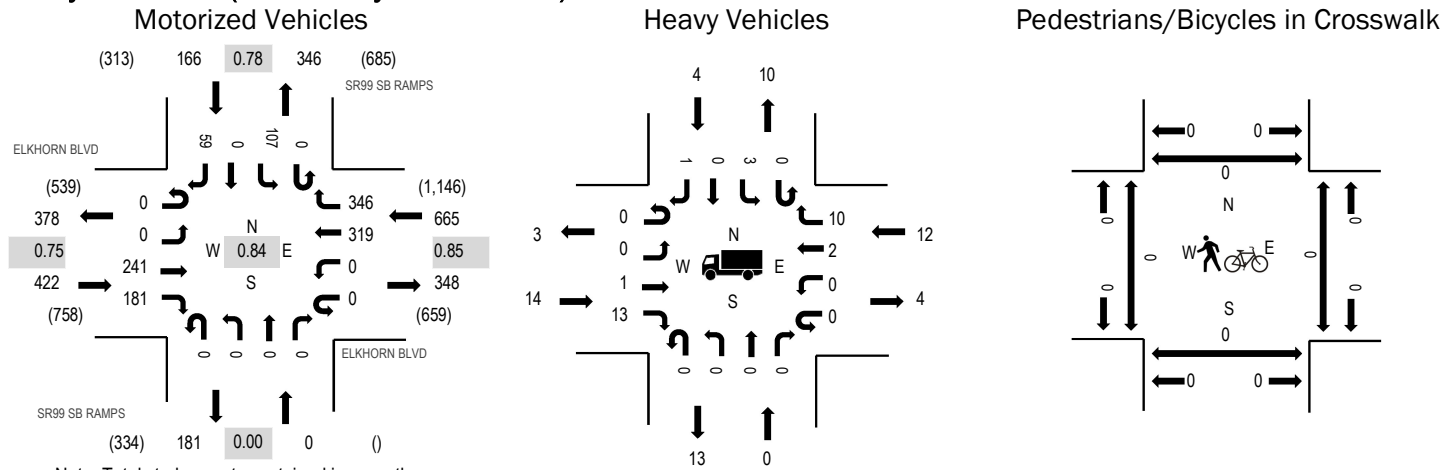
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				SR99 NB RAMPS Northbound				SR99 NB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	68	0	0	0	85	25	0	19	0	181	0	0	0	0	378	1,604
4:15 PM	0	0	68	0	0	0	92	34	0	27	0	172	0	0	0	0	393	1,653
4:30 PM	0	0	65	0	0	0	118	31	0	24	0	183	0	0	0	0	421	1,717
4:45 PM	0	0	60	0	0	0	97	35	0	23	0	197	0	0	0	0	412	1,794
5:00 PM	0	0	70	0	0	0	109	35	0	24	0	189	0	0	0	0	427	1,880
5:15 PM	0	0	60	0	0	0	126	25	0	29	0	217	0	0	0	0	457	
5:30 PM	0	0	93	0	0	0	129	29	0	60	0	187	0	0	0	0	498	
5:45 PM	0	0	77	0	0	0	141	23	0	59	0	198	0	0	0	0	498	
Count Total	0	0	561	0	0	0	897	237	0	265	0	1,524	0	0	0	0	3,484	
Peak Hour	0	0	300	0	0	0	505	112	0	172	0	791	0	0	0	0	1,880	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	2	7	3	0	12	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	2	7	3	0	12	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	1	4	5	0	10	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	1	5	2	0	8	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	0	7	0	0	7	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	2	3	5	0	10	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	4	4	0	8	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	3	5	3	0	11	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	11	42	25	0	78	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	5	19	12	0	36	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	3.3%	0.75
WB	1.8%	0.85
NB	0.0%	0.00
SB	2.4%	0.78
All	2.4%	0.84

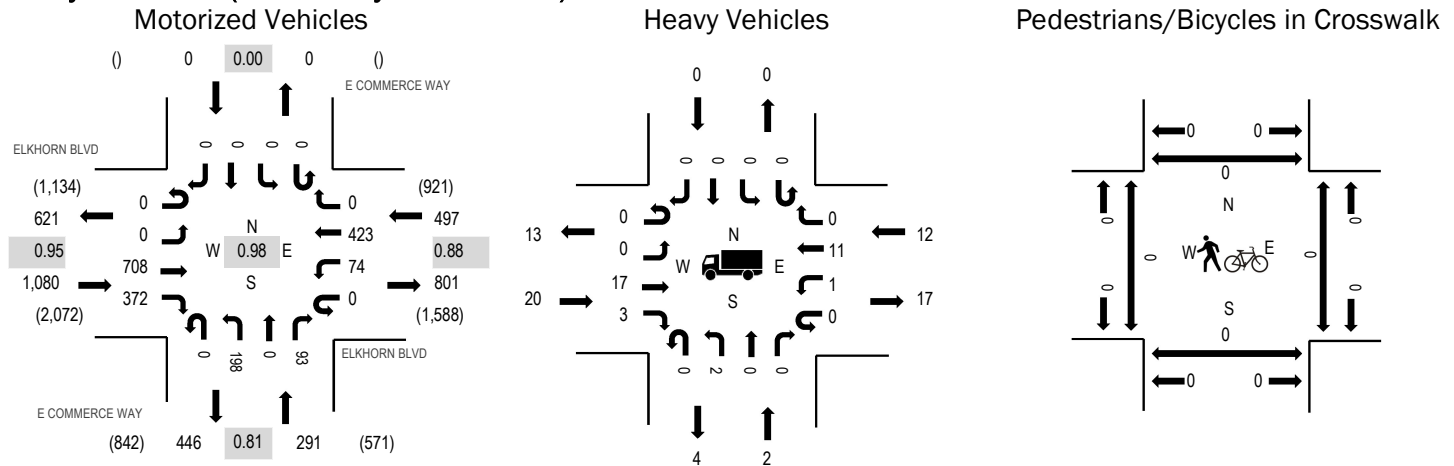
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				SR99 SB RAMPS Northbound				SR99 SB RAMPS Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	58	47	0	0	27	76	0	0	0	0	0	26	0	7	241	964
4:15 PM	0	0	50	36	0	0	37	80	0	0	0	0	0	32	0	2	237	970
4:30 PM	0	0	42	37	0	0	37	103	0	0	0	0	0	35	0	7	261	996
4:45 PM	0	0	33	33	0	0	41	80	0	0	0	0	0	35	0	3	225	1,110
5:00 PM	0	0	55	34	0	0	45	82	0	0	0	0	0	25	0	6	247	1,253
5:15 PM	0	0	44	29	0	0	64	91	0	0	0	0	0	19	0	16	263	
5:30 PM	0	0	91	50	0	0	88	99	0	0	0	0	0	28	0	19	375	
5:45 PM	0	0	51	68	0	0	122	74	0	0	0	0	0	35	0	18	368	
Count Total	0	0	424	334	0	0	461	685	0	0	0	0	0	235	0	78	2,217	
Peak Hour	0	0	241	181	0	0	319	346	0	0	0	0	0	107	0	59	1,253	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	8	0	3	1	12	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	3	0	2	3	8	4:15 PM	0	0	1	0	1	4:15 PM	0	0	0	0	0
4:30 PM	0	0	9	2	11	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	3	0	3	0	6	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	3	0	1	1	5	5:00 PM	1	0	0	0	1	5:00 PM	0	0	0	0	0
5:15 PM	3	0	4	1	8	5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0
5:30 PM	3	0	4	0	7	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	5	0	3	2	10	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	28	0	29	10	67	Count Total	1	0	2	0	3	Count Total	0	0	0	0	0
Peak Hour	14	0	12	4	30	Peak Hour	1	0	1	0	2	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.9%	0.95
WB	2.4%	0.88
NB	0.7%	0.81
SB	0.0%	0.00
All	1.8%	0.98

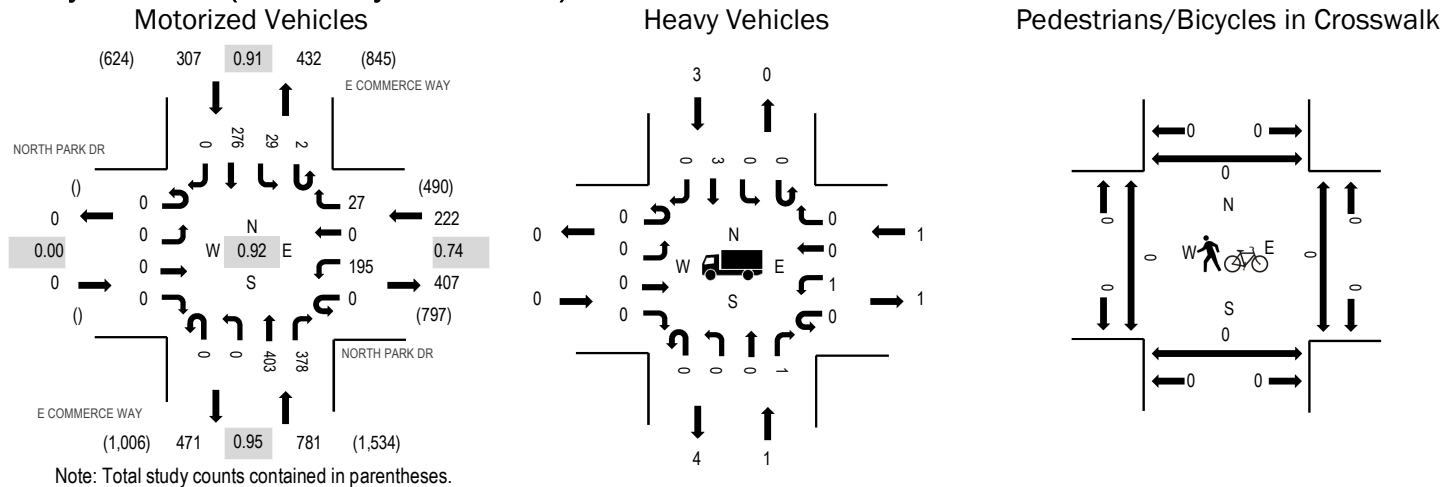
Traffic Counts - Motorized Vehicles

Interval Start Time	ELKHORN BLVD Eastbound				ELKHORN BLVD Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	171	71	0	16	62	0	0	55	0	22	0	0	0	0	397	1,696
4:15 PM	0	0	176	63	0	22	88	0	0	37	0	26	0	0	0	0	412	1,751
4:30 PM	0	0	161	91	0	25	112	0	1	37	0	31	0	0	0	0	458	1,808
4:45 PM	0	0	172	87	0	20	79	0	0	43	0	28	0	0	0	0	429	1,827
5:00 PM	0	0	163	92	0	13	94	0	0	59	0	31	0	0	0	0	452	1,868
5:15 PM	0	0	183	86	0	16	107	0	0	50	0	27	0	0	0	0	469	
5:30 PM	0	0	189	95	0	26	100	0	0	47	0	20	0	0	0	0	477	
5:45 PM	0	0	173	99	0	19	122	0	0	42	0	15	0	0	0	0	470	
Count Total	0	0	1,388	684	0	157	764	0	1	370	0	200	0	0	0	0	3,564	
Peak Hour	0	0	708	372	0	74	423	0	0	198	0	93	0	0	0	0	1,868	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	8	2	3	0	13	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	10	1	2	0	13	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	5	2	3	0	10	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	5	1	2	0	8	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	6	0	2	0	8	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	3	2	3	0	8	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	5	0	4	0	9	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	6	0	3	0	9	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	48	8	22	0	78	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	20	2	12	0	34	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	0.0%	0.00
WB	0.5%	0.74
NB	0.1%	0.95
SB	1.0%	0.91
All	0.4%	0.92

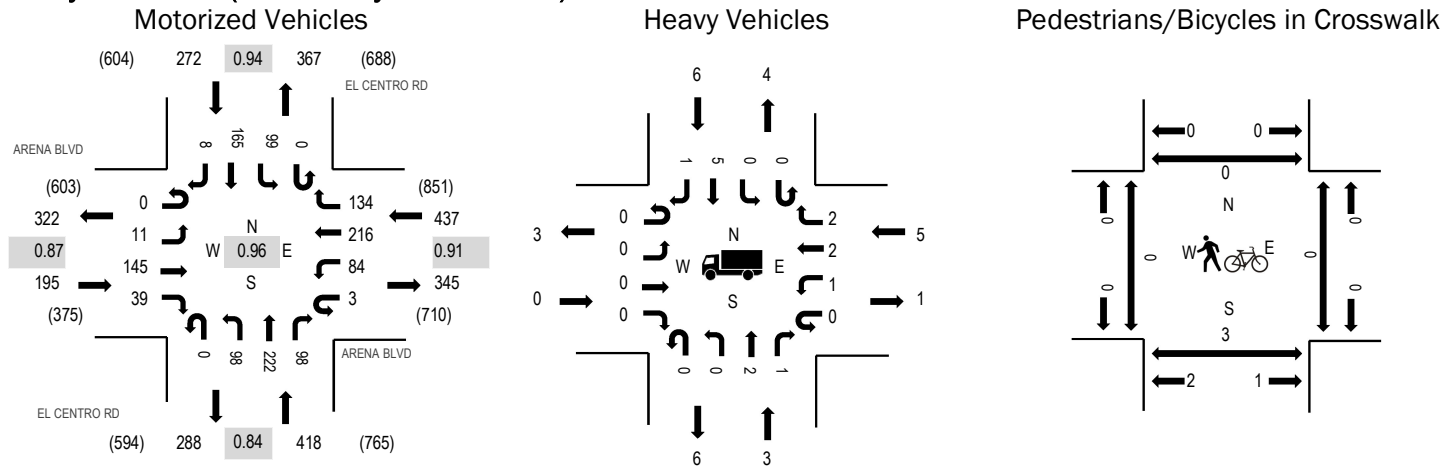
Traffic Counts - Motorized Vehicles

Interval Start Time	NORTH PARK DR Eastbound				NORTH PARK DR Westbound				E COMMERCE WAY Northbound				E COMMERCE WAY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	0	0	0	66	0	5	0	0	96	82	0	2	72	0	323	1,338
4:15 PM	0	0	0	0	0	61	0	3	0	0	98	83	0	10	75	0	330	1,370
4:30 PM	0	0	0	0	0	60	0	4	0	0	110	79	0	9	68	0	330	1,372
4:45 PM	0	0	0	0	0	63	0	6	0	0	90	115	1	10	70	0	355	1,364
5:00 PM	0	0	0	0	0	65	0	10	0	0	109	87	0	6	78	0	355	1,310
5:15 PM	0	0	0	0	0	56	0	7	0	0	98	108	1	5	57	0	332	
5:30 PM	0	0	0	0	0	40	0	4	0	0	111	86	0	10	71	0	322	
5:45 PM	0	0	0	0	0	34	0	6	0	0	85	97	1	8	70	0	301	
Count Total	0	0	0	0	0	445	0	45	0	0	797	737	3	60	561	0	2,648	
Peak Hour	0	0	0	0	0	195	0	27	0	0	403	378	2	29	276	0	1,310	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	1	1	1	3	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	1	0	0	1	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	2	1	0	3	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	2	0	1	3	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	1	1	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	1	0	1	2	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	1	1	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	0	1	0	1	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	0	7	3	5	15	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	0	1	1	3	5	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.87
WB	1.1%	0.91
NB	0.7%	0.84
SB	2.2%	0.94
All	1.1%	0.96

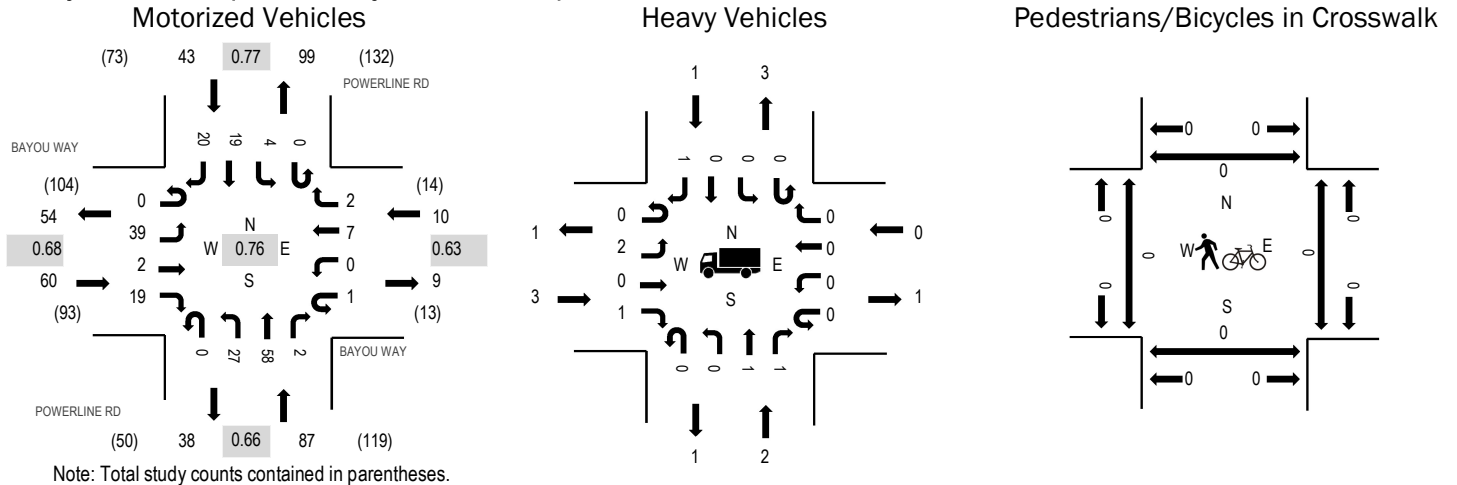
Traffic Counts - Motorized Vehicles

Interval Start Time	ARENA BLVD Eastbound				ARENA BLVD Westbound				EL CENTRO RD Northbound				EL CENTRO RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	37	9	0	23	50	34	0	11	42	26	0	32	56	4	324	1,273
4:15 PM	0	2	29	13	1	22	56	25	0	13	46	25	3	39	50	3	327	1,285
4:30 PM	0	4	30	6	3	20	50	29	0	16	58	27	0	32	48	3	326	1,303
4:45 PM	1	0	38	11	2	12	55	32	0	16	45	22	1	22	36	3	296	1,288
5:00 PM	0	2	33	11	2	32	44	42	0	29	46	24	0	20	48	3	336	1,322
5:15 PM	0	3	40	13	1	14	60	32	0	24	58	28	0	31	39	2	345	
5:30 PM	0	3	35	7	0	26	55	34	0	15	46	23	0	23	43	1	311	
5:45 PM	0	3	37	8	0	12	57	26	0	30	72	23	0	25	35	2	330	
Count Total	1	17	279	78	9	161	427	254	0	154	413	198	4	224	355	21	2,595	
Peak Hour	0	11	145	39	3	84	216	134	0	98	222	98	0	99	165	8	1,322	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	1	1	1	2	5	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	1	1	3	2	7	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	2	0	2	4	4:30 PM	0	0	0	0	0	4:30 PM	0	2	0	0	2
4:45 PM	0	1	1	0	2	4:45 PM	0	0	0	0	0	4:45 PM	0	2	0	0	2
5:00 PM	0	0	1	1	2	5:00 PM	0	0	0	0	0	5:00 PM	0	1	0	0	1
5:15 PM	0	2	3	3	8	5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0
5:30 PM	0	0	1	1	2	5:30 PM	0	0	0	0	0	5:30 PM	0	1	0	0	1
5:45 PM	0	1	0	1	2	5:45 PM	0	0	0	0	0	5:45 PM	0	1	0	0	1
Count Total	2	8	10	12	32	Count Total	0	0	1	0	1	Count Total	0	7	0	0	7
Peak Hour	0	3	5	6	14	Peak Hour	0	0	1	0	1	Peak Hour	0	3	0	0	3

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	5.0%	0.68
WB	0.0%	0.63
NB	2.3%	0.66
SB	2.3%	0.77
All	3.0%	0.76

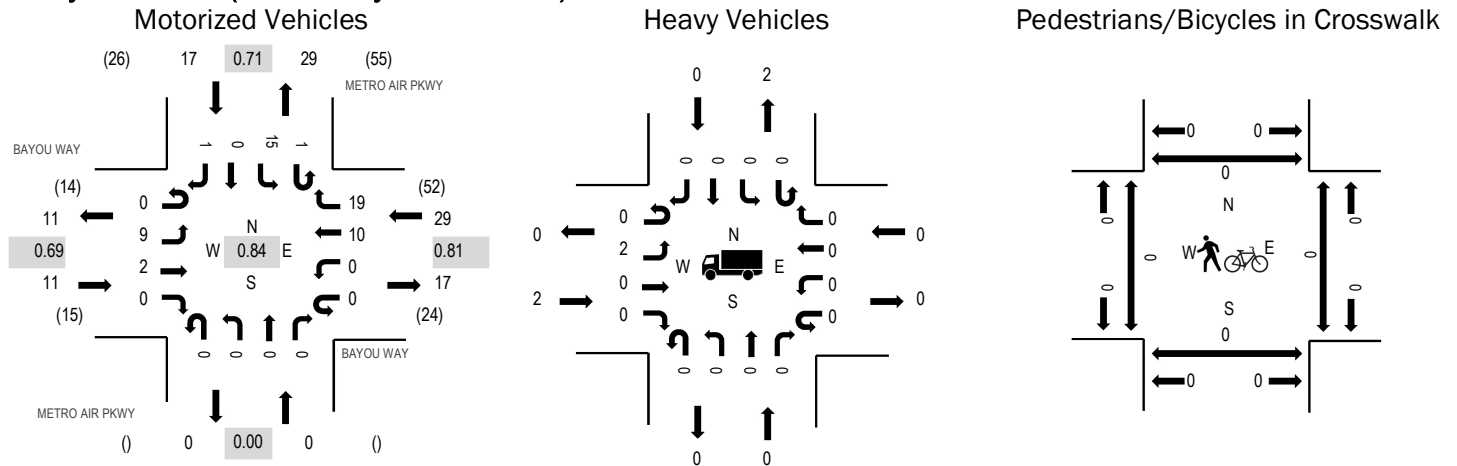
Traffic Counts - Motorized Vehicles

Interval Start Time	BAYOU WAY Eastbound				BAYOU WAY Westbound				POWERLINE RD Northbound			POWERLINE RD Southbound				Total	Rolling Hour	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru			Right
7:00 AM	0	15	0	7	1	0	0	1	0	4	28	1	0	1	3	0	61	200
7:15 AM	0	15	0	3	0	0	3	1	0	9	21	1	0	2	4	7	66	164
7:30 AM	0	4	1	4	0	0	1	0	0	8	4	0	0	1	5	8	36	118
7:45 AM	0	5	1	5	0	0	3	0	0	6	5	0	0	0	7	5	37	107
8:00 AM	0	8	0	2	0	0	1	0	0	3	6	0	0	0	0	5	25	99
8:15 AM	0	1	1	2	0	0	2	0	0	4	3	0	0	2	1	4	20	
8:30 AM	0	6	0	4	0	0	0	0	0	7	1	0	0	0	0	7	25	
8:45 AM	0	6	0	3	0	0	0	1	0	7	0	1	1	0	0	10	29	
Count Total	0	60	3	30	1	0	10	3	0	48	68	3	1	6	20	46	299	
Peak Hour	0	39	2	19	1	0	7	2	0	27	58	2	0	4	19	20	200	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	1	2	0	0	3	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	2	0	0	1	3	7:45 AM	0	1	0	0	1	7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	2	2	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	1	2	0	0	3	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	1	1	8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	0	1	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	4	5	0	3	12	Count Total	0	1	0	1	2	Count Total	0	0	0	0	0
Peak Hour	3	2	0	1	6	Peak Hour	0	1	0	0	1	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	18.2%	0.69
WB	0.0%	0.81
NB	0.0%	0.00
SB	0.0%	0.71
All	3.5%	0.84

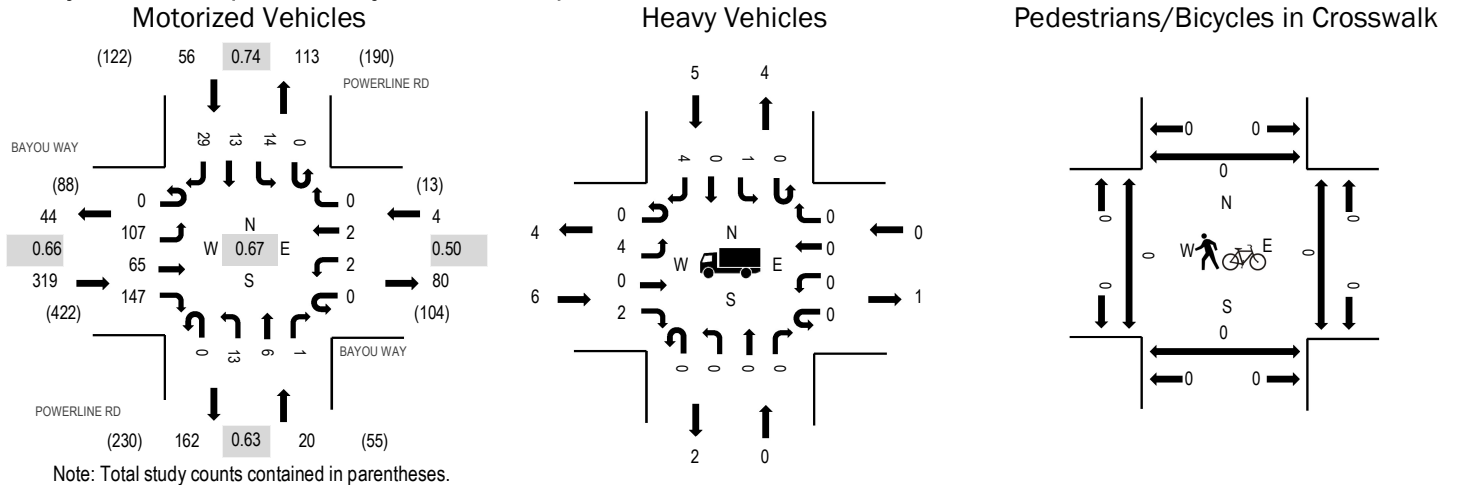
Traffic Counts - Motorized Vehicles

Interval Start Time	BAYOU WAY Eastbound				BAYOU WAY Westbound				METRO AIR PKWY Northbound				METRO AIR PKWY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	3	1	0	0	0	1	5	0	0	0	0	0	5	0	1	16	57
7:15 AM	0	3	0	0	0	0	4	5	0	0	0	0	0	0	0	0	12	53
7:30 AM	0	1	1	0	0	0	1	4	0	0	0	0	0	5	0	0	12	53
7:45 AM	0	2	0	0	0	0	4	5	0	0	0	0	1	5	0	0	17	43
8:00 AM	0	0	0	0	0	0	0	11	0	0	0	0	1	0	0	0	12	36
8:15 AM	0	2	1	0	0	0	1	5	0	0	0	0	0	2	0	1	12	
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	
8:45 AM	0	1	0	0	0	0	1	4	0	0	0	0	1	3	0	0	10	
Count Total	0	12	3	0	0	0	12	40	0	0	0	0	3	21	0	2	93	
Peak Hour	0	9	2	0	0	0	10	19	0	0	0	0	1	15	0	1	57	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	1	0	0	0	1	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:45 AM	1	0	0	0	1	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	1	1	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0	8:15 AM	0	0	1	1	1	8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:45 AM	1	0	0	0	1	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
Count Total	3	0	0	1	4	Count Total	0	0	1	1	1	Count Total	0	0	0	0	0
Peak Hour	2	0	0	0	2	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



	HV%	PHF
EB	1.9%	0.66
WB	0.0%	0.50
NB	0.0%	0.63
SB	8.9%	0.74
All	2.8%	0.67

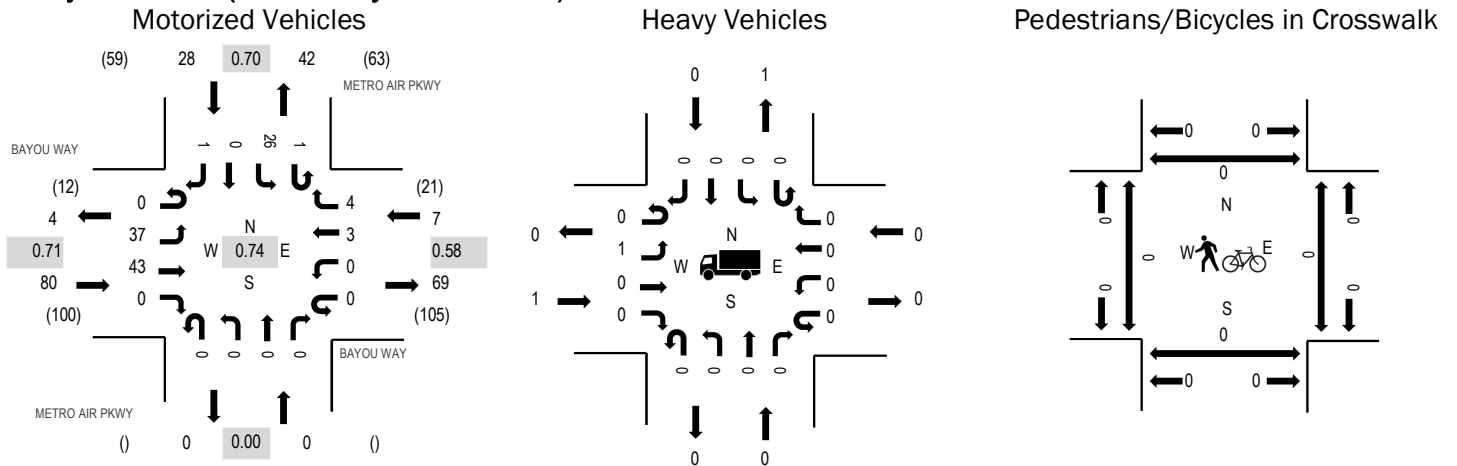
Traffic Counts - Motorized Vehicles

Interval Start Time	BAYOU WAY Eastbound				BAYOU WAY Westbound				POWERLINE RD Northbound				POWERLINE RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	35	25	61	0	1	0	0	0	6	1	0	0	5	6	8	148	399
4:15 PM	0	26	22	41	0	0	0	0	0	2	0	0	0	0	2	2	95	291
4:30 PM	0	28	12	28	0	1	1	0	0	3	4	1	0	2	2	12	94	246
4:45 PM	0	18	6	17	0	0	1	0	0	2	1	0	0	7	3	7	62	220
5:00 PM	0	13	1	13	0	0	0	0	0	3	3	0	0	2	1	4	40	213
5:15 PM	0	7	5	12	0	2	1	2	0	3	8	0	0	0	1	9	50	
5:30 PM	0	17	2	10	0	0	1	1	0	2	5	1	0	3	15	11	68	
5:45 PM	0	11	5	7	0	1	0	1	0	1	9	0	0	5	6	9	55	
Count Total	0	155	78	189	0	5	4	4	0	22	31	2	0	24	36	62	612	
Peak Hour	0	107	65	147	0	2	2	0	0	13	6	1	0	14	13	29	399	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	0	0	4	4	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	2	0	0	0	2	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	4	0	0	1	5	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	2	0	0	0	2	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	2	0	0	0	2	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	1	0	0	1	2	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	11	0	0	6	17	Count Total	0	0	0	0	0	Count Total	0	0	0	0	0
Peak Hour	6	0	0	5	11	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

Study Peak Hour (for all study intersections)



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	1.3%	0.71
WB	0.0%	0.58
NB	0.0%	0.00
SB	0.0%	0.70
All	0.9%	0.74

Traffic Counts - Motorized Vehicles

Interval Start Time	BAYOU WAY Eastbound				BAYOU WAY Westbound				METRO AIR PKWY Northbound				METRO AIR PKWY Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	7	21	0	0	0	0	1	0	0	0	0	0	9	0	1	39	115
4:15 PM	0	14	10	0	0	0	0	0	0	0	0	0	0	5	0	0	29	85
4:30 PM	0	8	8	0	0	0	2	1	0	0	0	0	0	8	0	0	27	78
4:45 PM	0	8	4	0	0	0	1	2	0	0	0	0	1	4	0	0	20	68
5:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	6	0	0	9	65
5:15 PM	0	1	3	0	0	0	4	2	0	0	0	0	0	12	0	0	22	
5:30 PM	0	2	4	0	0	0	2	1	0	0	0	0	1	7	0	0	17	
5:45 PM	0	6	1	0	0	0	0	5	0	0	0	0	0	3	0	2	17	
Count Total	0	49	51	0	0	0	9	12	0	0	0	0	2	54	0	3	180	
Peak Hour	0	37	43	0	0	0	3	4	0	0	0	0	1	26	0	1	115	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles in Crosswalk

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	1	0	0	0	1	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0	5:15 PM	1	0	0	0	1
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
Count Total	1	0	0	0	1	Count Total	0	0	0	0	0	Count Total	1	0	0	0	1
Peak Hour	1	0	0	0	1	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

National Data & Surveying Services

Intersection Turning Movement Count

Location: Power Line Rd & W Elkhorn Blvd
City: Sacramento
Control: 3-Way Stop(NB/SB/WB)

Project ID: 20-07093-007
Date: 3/12/2020

Total

NS/EW Streets:	Power Line Rd				Power Line Rd				W Elkhorn Blvd				W Elkhorn Blvd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
6:00 AM	0	0	2	0	0	8	0	0	0	0	0	0	4	0	0	0	14
6:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	5	0	1	0	18
6:30 AM	0	3	9	0	0	8	0	0	0	0	0	0	13	0	1	1	35
6:45 AM	0	6	23	0	0	5	0	0	0	0	0	0	11	0	1	0	46
7:00 AM	0	1	23	0	1	6	0	0	0	0	0	0	19	0	1	0	51
7:15 AM	0	3	24	0	0	15	0	0	0	0	0	0	20	0	0	0	62
7:30 AM	0	5	14	0	1	9	0	0	0	0	0	0	38	0	0	0	67
7:45 AM	0	6	3	0	0	10	0	0	0	0	0	0	44	0	0	0	63
8:00 AM	0	5	8	0	0	9	0	0	0	0	0	0	24	0	1	0	47
8:15 AM	0	1	7	0	0	29	0	0	0	0	0	0	14	0	1	0	52
8:30 AM	0	2	4	0	1	4	0	0	0	0	0	0	15	0	1	0	27
8:45 AM	0	0	5	0	0	3	0	0	0	0	0	0	7	0	0	0	15
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	0	32	128	0	3	112	0	0	0	0	0	0	214	0	7	1	497
	0.00%	20.00%	80.00%	0.00%	2.61%	97.39%	0.00%	0.00%					96.40%	0.00%	3.15%	0.45%	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	0	15	64	0	2	40	0	0	0	0	0	0	121	0	1	0	243
PEAK HR FACTOR :	0.000	0.625	0.667	0.000	0.500	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.688	0.000	0.250	0.000	0.907
	0.731				0.700								0.693				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
4:00 PM	0	14	60	0	0	3	0	0	0	0	0	0	12	0	0	0	89
4:15 PM	0	22	64	0	0	4	0	0	0	0	0	0	3	0	0	0	93
4:30 PM	0	26	68	0	2	5	0	0	0	0	0	0	7	0	0	0	108
4:45 PM	0	22	60	0	0	2	0	0	0	0	0	0	6	0	3	0	93
5:00 PM	0	25	64	1	1	5	0	0	0	0	0	0	10	0	2	0	108
5:15 PM	0	30	70	0	1	3	0	0	0	0	0	0	6	0	1	1	112
5:30 PM	0	34	72	0	2	1	0	0	0	0	0	0	12	0	0	0	121
5:45 PM	0	18	77	0	0	1	0	0	0	0	0	0	8	0	0	0	104
6:00 PM	0	11	39	0	0	3	0	0	0	0	0	0	46	0	0	0	99
6:15 PM	0	3	21	0	1	7	0	0	0	0	0	0	25	0	0	0	57
6:30 PM	0	3	10	0	0	5	0	0	0	0	0	0	10	0	0	0	28
6:45 PM	0	6	4	0	0	1	0	0	0	0	0	0	7	0	0	0	18
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	0	214	609	1	7	40	0	0	0	0	0	0	152	0	6	1	1030
	0.00%	25.97%	73.91%	0.12%	14.89%	85.11%	0.00%	0.00%					95.60%	0.00%	3.77%	0.63%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	107	283	1	4	10	0	0	0	0	0	0	36	0	3	1	445
PEAK HR FACTOR :	0.000	0.787	0.919	0.250	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.375	0.250	0.919
	0.922				0.583								0.833				

APPENDIX B:

Trip Generation and Distribution Memo



TRIP GENERATION AND DISTRIBUTION MEMORANDUM

DATE: March 10, 2023

TO: Matthew Ilagan | City of Sacramento
Pelle Clarke | City of Sacramento

FROM: Sean Carney | DKS Associates
Dave Tokarski | DKS Associates
Vic Maslanka | DKS Associates

SUBJECT: Airport South Industrial – Phase B

Project #19179-024

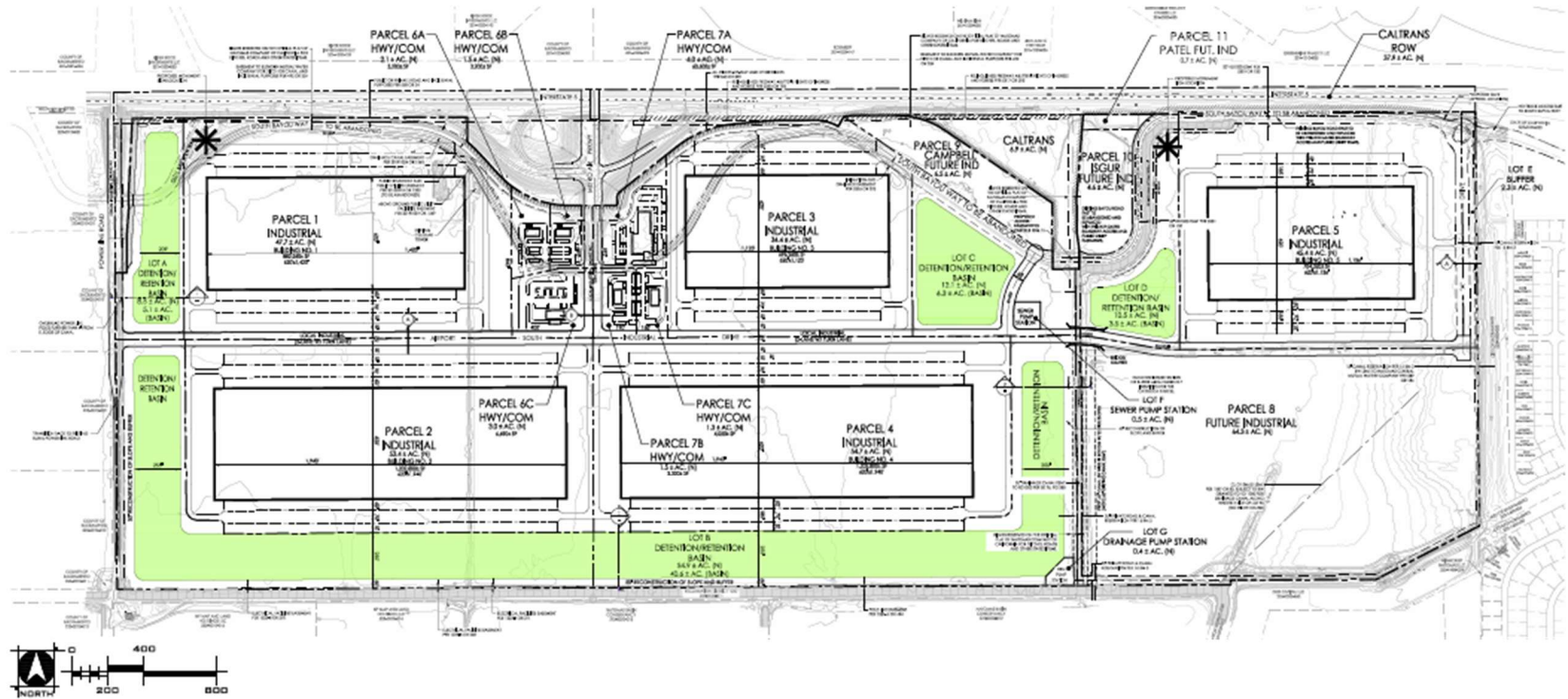
This memorandum summarizes the results of the trip generation and distribution analysis of the proposed Airport South Industrial project, based upon the latest Baseline Plus Project model runs. The project consists of approximately 474.4 net acres of land to be annexed into the City of Sacramento and developed as M-1 (Industrial) and HC (Highway Commercial) zoning land uses.

PROJECT DESCRIPTION

As illustrated in **Figure 1**, the project is located on the south side of I-5 at the Metro Air Parkway interchange. **Figure 2** illustrates the proposed site plan. **Table 1** summarizes the land use utilized in the calculation of trip generation. This land use information was taken directly from the land use summary included in the project description information provided by the applicant to the City. The project includes over 6.6 million square feet of warehousing / distribution / industrial space, four restaurants, a fueling station / carwash, and a hotel.



FIGURE 1: SITE LOCATION



Source: Wood Rodgers, June 20, 2022.

FIGURE 2: PRELIMINARY SITE PLAN

TABLE 1: LAND USE SUMMARY

PARCEL	USE	PARCEL SIZE (ACRES)	BUILDING SIZE (SQARE FEET)
1 - 5	Warehouse Distribution	235.6	5,204,500
6A	Restaurant	2.1	3,900
6B	Restaurant	1.5	3,900
6C	Fueling Station / Carwash	3.0	8,100
7A	Hotel	4.0	73,400
7B	Restaurant	1.5	3,900
7C	Restaurant	1.3	5,000
8-11 AND CALTRANS	Future Industrial	83.0	1,404,800

Source: Wood Rodgers, June 20, 2022.

TRIP GENERATION ESTIMATION

INDUSTRIAL USES

For parcels 1 - 5, 8 - 11, and Caltrans, it was assumed that the parcels would be developed in a manner comparable to Metro Airpark (located on the north side of I-5). As the travel model utilizes “employees” as the land use variable, the building size was converted to number of employees. To calculate this conversion, the applicant provided information from comparable facilities throughout the United States, including the adjacent Metro Airpark. This information was reviewed by City staff, and an employment density of 0.572 employees per 1,000 square feet was assigned (one employee per 1,748 square feet). **Table 2** summarizes the estimated number of employees for each parcel. A total of 3,781 employees were calculated.

Table 3 presents mode choice of the industrial uses for light vehicles. 96 percent of person trips are by automobile, 3 percent by walk mode, and 1 percent by bicycle. These estimates do not include heavy vehicle trips.

Table 4 summarizes the daily, AM peak hour, and PM peak hour vehicular trip generation of the industrial uses, as estimated by the travel model (Baseline Plus Project scenario). The industrial

uses are estimated to generate 12,794 daily trips, 1,191 AM peak hour trips, and 1,004 PM peak hour trips. This includes light vehicle and heavy vehicle trips.

TABLE 2: INDUSTRIAL EMPLOYMENT SUMMARY

PARCEL	PARCEL SIZE (ACRES)	BUILDING SIZE (SQARE FEET)	EMPLOYEES
1	47.7	979,400	560
2	53.4	1,335,200	764
3	34.4	772,900	442
4	54.7	1,335,200	764
5	45.4	781,800	447
8	64.3	1,088,200	622
9	6.5	110,000	63
10	4.6	77,900	45
11	0.7	11,900	7
CALTRANS	6.9	116,800	67
INDUSTRIAL SUMMARY	318.6	6,609,300	3,781

TABLE 3: INDUSTRIAL DAILY MODE CHOICE

MODE	PERCENTAGE OF PERSON TRIPS
WALK	3%
BICYCLE	1%
AUTOMOBILE – 1 OCCUPANT (SOV)	71%
AUTOMOBILE – 2 OCCUPANTS (HOV2)	14%
AUTOMOBILE – 3 OR MORE OCCUPANTS (HOV3+)	11%

TABLE 4: ESTIMATED INDUSTRIAL TOTAL TRIP GENERATION

TOTAL VEHICLE TRIPS (LIGHT VEHICLES AND HEAVY VEHICLES)						
DAILY	AM PEAK HOUR			PM PEAK HOUR		
	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
12,794	886	305	1,191	281	723	1,004

Table 5 compares the total vehicle trip generation rates of the travel model (trips per 1,000 square feet) to ITE Trip Generation¹, rates for similar land uses. The travel model estimates are similar to the ITE warehouse rates (model is higher for daily and AM peak hour, lower for PM peak hour), but lower than light industrial and manufacturing uses. The model projections are consistent with the warehousing and fulfillment center uses that predominate the Metro Airpark. No further adjustments to the travel model for industrial total trip generation purposes are recommended.

Table 6 summarizes the heavy vehicle trip generation estimates of the travel model. Compared to the anticipated heavy vehicle trip generation for these industrial uses, these estimates are low.

Table 7 compares the heavy vehicle trip percentages to ITE Trip Generation percentages for similar land uses, as well as data from Metro Airpark.

It is recommended that the heavy vehicle trip generation rates should be increased, and applied with a post-processor methodology to adjust the model estimates to reflect anticipated heavy vehicle travel volumes. Based upon the ITE Trip Generation data and the data from Metro Airpark, the recommended heavy vehicle trip generation estimates are presented in **Table 8**.

¹ 11th Edition, Version 6.0.1, May 2022

TABLE 5: COMPARISON TO ITE AND METRO AIRPARK INDUSTRIAL TRIP GENERATION RATES

ITE CODE	LAND USE	VEHICLE TRIPS PER 1,000 SQUARE FEET		
		DAILY	AM PEAK HOUR	PM PEAK HOUR
	Travel Model Estimates	1.94	0.18	0.15
110	General Light Industrial	4.87	0.74	0.65
130	Industrial Park	3.37	0.34	0.34
140	Manufacturing	4.75	0.68	0.74
150	Warehousing	1.71	0.17	0.18
154	High-Cube Transload and Short-Term Storage Warehouse	1.40	0.08	0.10
155	High-Cube Fulfillment Center Warehouse - Non-Sort	1.81	0.15	0.16
-	Amazon SMF5 (Metro Airpark) – Peak Season ^a	7.43	0.93	0.82
-	Amazon SMF5 (Metro Airpark) – Off-Peak Season ^a	4.46	0.56	0.49
-	Walmart SMF1 (Metro Airpark) ^b	0.31	0.12	0.12
-	SC Johnson (Metro Air Park) ^b	0.58	0.07	0.06
-	8035 Metro Air Parkway ^c	-	0.61	0.61
-	Amazon Fulfillment Center, Patterson, CA ^d	1.80	0.08	0.36
-	JC Penney Distribution Center, Lathrop, CA ^d	0.70	0.03	0.04

- a. *Metro Air Park – Lot 49 Site Access and Circulation Analysis Update, Fehr & Peers, March 22, 2021.*
- b. *Project Bronco – Metro Air Parkway / Skyking Road Existing Plus Project and Existing Plus Project Plus Building 1 Signal Warrant Analysis, Fehr & Peers, September 14, 2020.*
- c. *8035 Metro Air Parkway – Site Access and Circulation Analysis Update, Fehr & Peers, August 3, 2021.*
- d. *Metro Air Parkway / I-5 Interchange PS&E Support – Part 2, Fehr & Peers, August 4, 2017.*

TABLE 6: ESTIMATED INDUSTRIAL HEAVY VEHICLE TRIP GENERATION

VEHICLE TRIPS							
VEHICLE TYPE	DAILY	AM PEAK HOUR			PM PEAK HOUR		
		ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
HEAVY	536	26	26	52	9	9	18
TOTAL	12,794	886	305	1,191	281	723	1,004
PERCENT HEAVY TRIPS	4%	3%	9%	4%	3%	1%	2%

TABLE 7: COMPARISON TO ITE AND METRO AIRPARK INDUSTRIAL HEAVY VEHICLE TRIP PERCENTAGES

ITE CODE	LAND USE	PERCENT HEAVY TRIPS		
		DAILY	AM PEAK HOUR	PM PEAK HOUR
	Travel Model Estimates	4%	4%	2%
110	General Light Industrial	5%	1%	2%
130	Industrial Park	17%	12%	12%
140	Manufacturing	9%	4%	4%
150	Warehousing	35%	12%	17%
154	High-Cube Transload and Short-Term Storage Warehouse	16%	25%	10%
155	High-Cube Fulfillment Center Warehouse - Non-Sort	13%	13%	6%
-	Amazon SMF5 (Metro Airpark) – Peak Season ^a	23%	7%	13%
-	Amazon SMF5 (Metro Airpark) – Off-Peak Season ^a	23%	7%	13%
-	Walmart SMF1 (Metro Airpark) ^b	22%	2%	2%
-	SC Johnson (Metro Air Park) ^b	77%	100%	100%
-	8035 Metro Air Parkway ^c	-	4%	3%

a. Metro Air Park – Lot 49 Site Access and Circulation Analysis Update, Fehr & Peers, March 22, 2021.

b. Project Bronco – Metro Air Parkway / Skyking Road Existing Plus Project and Existing Plus Project Plus Building 1 Signal Warrant Analysis, Fehr & Peers, September 14, 2020.

c. 8035 Metro Air Parkway – Site Access and Circulation Analysis Update, Fehr & Peers, August 3, 2021.

TABLE 8: RECOMMENDED INDUSTRIAL HEAVY VEHICLE TRIP GENERATION

VEHICLE TRIPS							
VEHICLE TYPE	DAILY	AM PEAK HOUR			PM PEAK HOUR		
		ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
HEAVY	2,559	89	31	119	28	72	100
TOTAL	12,794	886	305	1,191	281	723	1,004
PERCENT HEAVY TRIPS	20%	10%	10%	10%	10%	10%	10%

HIGHWAY COMMERCIAL USES

Similar to the industrial uses, the building sizes of the highway commercial uses were converted to employees for input to the travel model. Consistent with other retail and service uses in the travel model, 500 square feet per employee was assumed. This yields 33 employees for the land use west of Metro Air Parkway, and 164 employees for the land use east of Metro Air Parkway.

Table 9 presents mode choice of the highway commercial uses. 97 percent of person trips are by automobile, 3 percent by walk mode, and less than 1 percent by bicycle. The number of heavy vehicle trips associated with the highway commercial uses are small, unless a truck-oriented business is developed within this area.

TABLE 9: HIGHWAY COMMERCIAL DAILY MODE CHOICE

MODE	PERCENTAGE OF PERSON TRIPS
WALK	3%
BICYCLE	<1%
AUTOMOBILE – 1 OCCUPANT (SOV)	57%
AUTOMOBILE – 2 OCCUPANTS (HOV2)	23%
AUTOMOBILE – 3 OR MORE OCCUPANTS (HOV3+)	17%

Table 10 summarizes the highway commercial vehicle trip generation estimates of the travel model.

TABLE 10: ESTIMATED HIGHWAY COMMERCIAL TRIP GENERATION

PARCEL	EMPLOYEES	VEHICLE TRIPS						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
6A, 6B, 6C (WEST)	33	298	15	5	20	9	15	23
7A, 7B, 7C (EAST)	164	1,005	54	18	73	24	48	72
HIGHWAY COMMERCIAL SUMMARY	197	1,303	69	23	93	33	63	95

Compared to the anticipated trip generation for these highway commercial uses adjacent to an interstate freeway, these estimates are extremely low. The travel model does not include land use categories / uses specific to intense highway commercial uses, such as a convenience store / gas station. The model trip generation is also unconstrained for employment uses, which reduces the number of trips attracted to a land use not adjacent to a developed area.

It is recommended that ITE trip generation rates be used for the highway commercial uses, and applied with a post-processor methodology to adjust the model estimates to reflect anticipated travel volumes. This is especially critical for the access management review along Metro Air Parkway near the I-5 interchange, and along Airport South Industrial Drive.

The recommended trip generation of the highway commercial uses is based upon representative uses from the Institute of Transportation Engineers (ITE) Trip Generation Manual 11th Edition, Version 6.0.1, May 2022. **Table 11** summarizes the land use on each parcel and the assumed ITE land use code and statistics.

Table 12 and **Table 13** summarize the vehicle trip generation estimates for the highway commercial parcels. Parcel 6C was calculated based upon both fueling positions and convenience store size, with the results averaged. Pass-by percentages are based upon ITE data. Internal trips are limited to a maximum of 10 percent, with no trips assumed between restaurants. The appendix includes the trip generation calculations for highway commercial uses.

TABLE 11: HIGHWAY COMMERCIAL PARCEL TRIP GENERATION CHARACTERISTICS

PARCEL	PROPOSED USE	ACRES	SQUARE FEET	ITE CODE	ASSUMED USE	ASSUMPTIONS
6A	Restaurant	2.1	3,900	934	Fast-Food Restaurant	-
6B	Restaurant	1.5	3,900	934	Restaurant With Drive-Through	-
6C	Fueling Station / Carwash	3.0	8,100	945	Convenience Store / Gas Station	8,100 square-foot convenience store, 20 fueling positions
7A	Hotel	4.0	73,400	310	Hotel	122 Rooms, based on typical 600 square feet per room
7B	Restaurant	1.5	3,900	934	Fast-Food Restaurant	-
7C	Restaurant	1.3	5,000	934	Restaurant With Drive-Through	-

TABLE 12: HIGHWAY COMMERCIAL VEHICLE TRIP GENERATION ESTIMATES – WEST PARCELS

PARCEL	PROPOSED USE	VEHICLE TRIPS (INCLUDES TRUCK TRIPS)						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
TOTAL TRIPS								
6A	Restaurant	1,823	89	85	174	67	62	129
6B	Restaurant	1,823	89	85	174	67	62	129
6C	Fueling Station / Carwash	8,655	343	343	686	295	294	589
	Total	12,301	521	513	1,034	429	418	847
INTERNAL TRIPS								
	Total	-729	-35	-35	-70	-26	-26	-52
PASS-BY TRIPS								
6A	Restaurant	-861	-40	-38	-78	-33	-31	-64
6B	Restaurant	-861	-40	-38	-78	-33	-31	-64
6C	Fueling Station / Carwash	-6,259	-247	-248	-495	-211	-211	-422
	Total	-7,982	-327	-324	-652	-278	-273	-550
NEW TRIPS								
6A	Restaurant	779	40	38	78	27	25	52
6B	Restaurant	779	40	38	78	27	25	52
6C	Fueling Station / Carwash	2,031	78	78	156	70	70	141
	Total	3,590	158	155	313	125	121	245

TABLE 13: HIGHWAY COMMERCIAL VEHICLE TRIP GENERATION ESTIMATES – EAST PARCELS

PARCEL	PROPOSED USE	VEHICLE TRIPS (INCLUDES TRUCK TRIPS)						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
TOTAL TRIPS								
7B	Restaurant	1,823	89	85	174	67	62	129
7C	Restaurant	2,337	114	109	223	86	79	165
7A	Hotel	975	31	25	56	37	35	72
	Total	5,135	234	219	453	190	176	366
INTERNAL TRIPS								
	Total	-195	-6	-5	-11	-7	-7	-14
PASS-BY TRIPS								
7B	Restaurant	-935	-44	-42	-86	-36	-33	-69
7C	Restaurant	-1,198	-56	-54	-110	-46	-42	-89
7A	Hotel	0	0	0	0	0	0	0
	Total	-2,133	-100	-96	-196	-82	-76	-158
NEW TRIPS								
7B	Restaurant	846	44	42	86	29	27	57
7C	Restaurant	1,084	56	54	110	38	35	72
7A	Hotel	878	28	23	50	33	32	65
	Total	2,807	128	118	246	100	93	194

TRIP DISTRIBUTION ESTIMATES

INDUSTRIAL USES

Figure 3 illustrates the project trip distribution from the Baseline Plus Project scenario for the industrial uses. Separate distribution percentages are displayed for light vehicles (automobiles) and heavy vehicles.

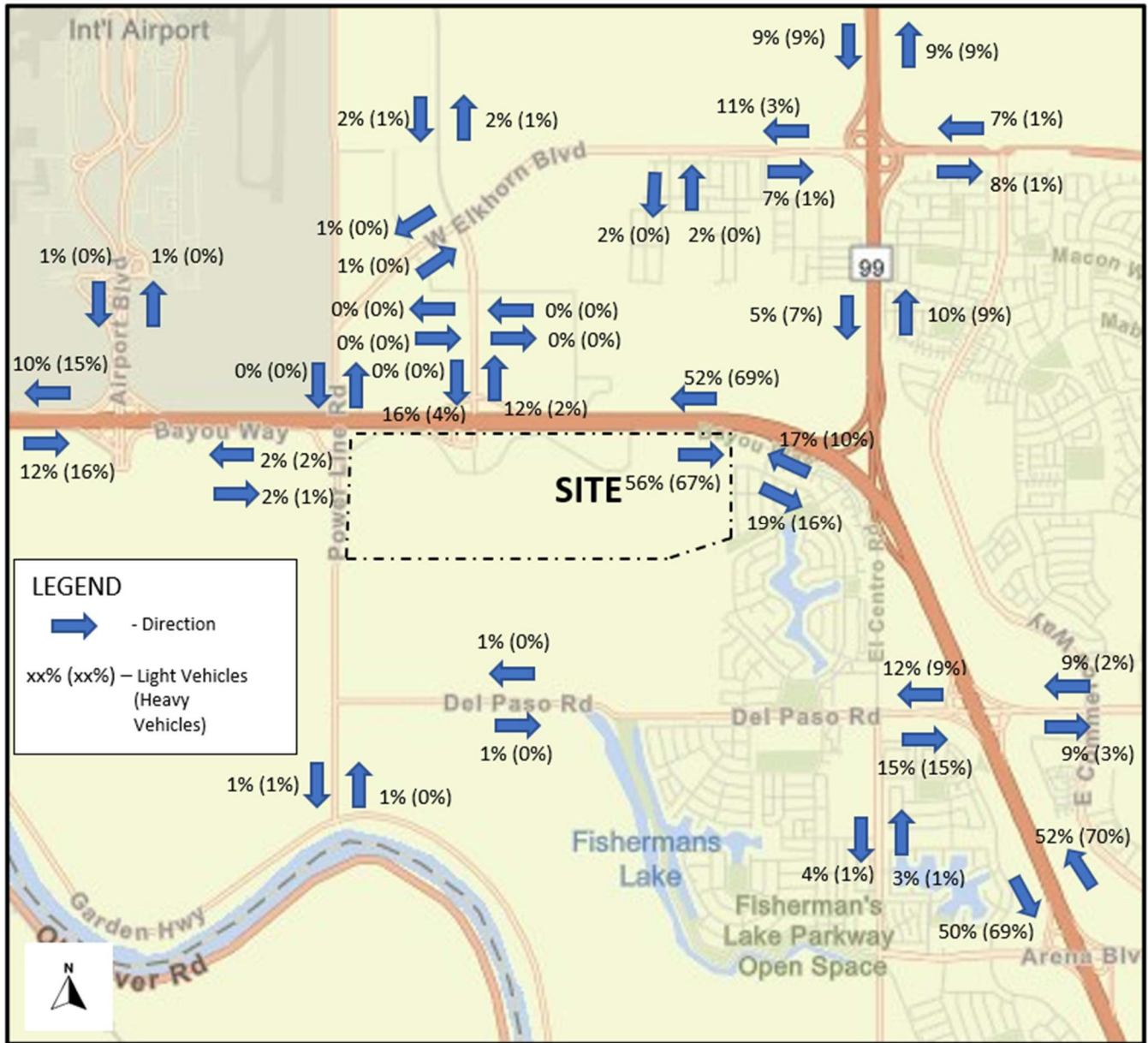
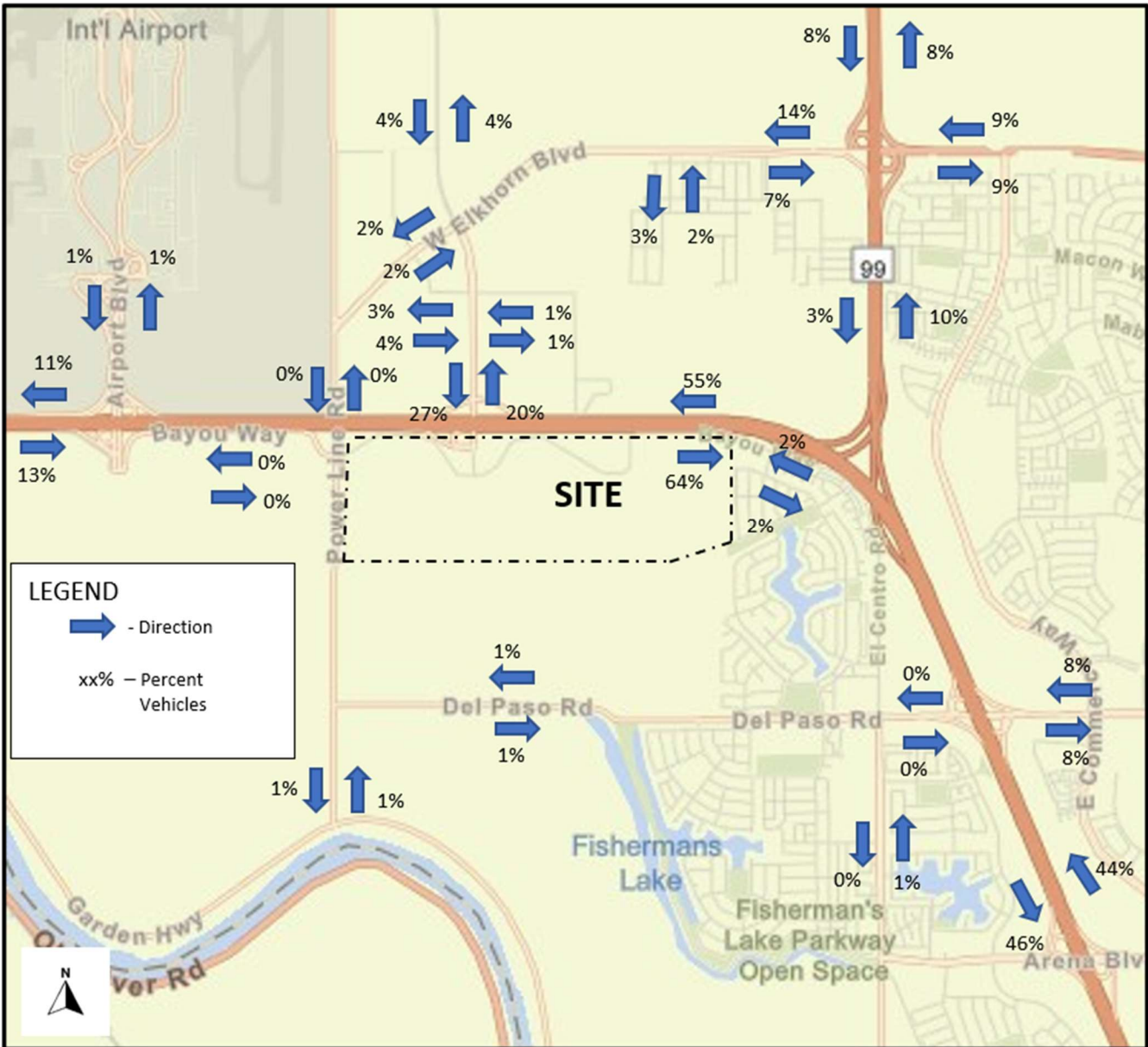


FIGURE 3: BASELINE PROJECT TRIP DISTRIBUTION FOR INDUSTRIAL USES

HIGHWAY COMMERCIAL USES

Figure 4 illustrates the project trip distribution from the Baseline Plus Project scenario for the highway commercial uses. As discussed previously, these uses will not generate a large volume of heavy vehicles. The distribution reflects new trips. Pass-by trips associated with the highway commercial uses will primarily be associated with traffic patterns on I-5.

FIGURE 4: BASELINE PROJECT TRIP DISTRIBUTION FOR HIGHWAY COMMERCIAL USES



APPENDIX C:

SimTraffic Reports – Existing

Summary of All Intervals

Run Number	1	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	12414	12383	12290	12294	12264	12339
Vehs Exited	12430	12336	12315	12291	12264	12328
Starting Vehs	522	520	532	524	526	523
Ending Vehs	506	567	507	527	526	517
Travel Distance (mi)	13099	13123	13010	12975	13007	13043
Travel Time (hr)	564.4	534.3	542.4	582.2	576.5	559.9
Total Delay (hr)	204.9	173.9	185.0	226.1	219.8	201.9
Total Stops	14663	14860	14850	14728	14868	14800
Fuel Used (gal)	500.0	496.5	494.5	501.7	501.4	498.8

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	4	5	6	7	Avg
Vehs Entered	12414	12383	12290	12294	12264	12339
Vehs Exited	12430	12336	12315	12291	12264	12328
Starting Vehs	522	520	532	524	526	523
Ending Vehs	506	567	507	527	526	517
Travel Distance (mi)	13099	13123	13010	12975	13007	13043
Travel Time (hr)	564.4	534.3	542.4	582.2	576.5	559.9
Total Delay (hr)	204.9	173.9	185.0	226.1	219.8	201.9
Total Stops	14663	14860	14850	14728	14868	14800
Fuel Used (gal)	500.0	496.5	494.5	501.7	501.4	498.8

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.8	0.0	0.0	0.8
Denied Del/Veh (s)	0.7	2.9	0.0	0.0	1.6
Total Delay (hr)	0.0	0.6	0.0	0.1	0.7
Total Del/Veh (s)	2.7	2.2	0.1	0.3	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.3	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.3
Total Del/Veh (s)	4.5	0.8	2.5	1.3	1.1	0.7	3.3
Stop Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.2	0.0	2.7	0.0	0.0	0.0	2.2

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.3	0.4	2.3	0.0	0.0	0.2	4.0	1.8
Total Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.6	7.0	3.2	0.9	1.4	1.2	0.8	2.3
Stop Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.6	2.7	2.2	0.2	0.1	0.0	0.0	1.2

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	3.8	0.9	2.0	0.7	0.6	0.3	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	2.5	0.0	0.4	0.2	0.1	0.0	0.4

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	0.5	0.1	0.5	0.0	1.9	1.2	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0	1.4	1.3	0.4

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	2.6	0.5	2.2	0.1	0.1	0.4	0.1	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.5	0.0	1.4	0.0	0.0	0.1	0.0	0.6

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	1.6	0.0	0.0	0.0
Total Delay (hr)	0.1	5.4	0.3	3.2	4.3	0.1	2.7	0.5	0.1	2.5	0.8	0.1
Total Del/Veh (s)	53.3	30.5	7.1	39.3	21.4	2.0	36.7	44.7	1.3	31.4	23.2	12.4
Stop Delay (hr)	0.1	4.4	0.3	2.8	2.9	0.0	2.4	0.4	0.0	2.3	0.7	0.1
Stop Del/Veh (s)	51.3	24.9	5.6	35.0	14.4	1.1	33.2	39.5	0.0	29.1	20.0	12.8

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	20.0
Total Del/Veh (s)	24.4
Stop Delay (hr)	16.4
Stop Del/Veh (s)	20.0

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.1	0.0	1.4	0.1	0.0	0.0	3.8	0.3	0.2	0.3	0.3	3.7
Total Delay (hr)	0.1	0.1	0.0	0.2	0.2	0.5	0.1	0.6	0.1	1.1	0.5	0.0
Total Del/Veh (s)	23.9	13.2	2.8	30.8	16.2	6.6	16.1	19.7	7.8	16.8	19.4	3.1
Stop Delay (hr)	0.1	0.1	0.0	0.2	0.1	0.3	0.0	0.4	0.1	0.9	0.3	0.0
Stop Del/Veh (s)	22.9	10.1	3.3	28.9	12.4	4.2	13.8	14.7	6.8	13.6	13.8	2.4

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.4
Total Del/Veh (s)	13.7
Stop Delay (hr)	2.6
Stop Del/Veh (s)	10.5

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	3.8	2.7	2.2	2.4	11.1
Total Del/Veh (s)	17.5	6.7	23.3	10.6	11.8
Stop Delay (hr)	2.8	1.0	1.8	1.6	7.2
Stop Del/Veh (s)	13.0	2.5	19.5	7.0	7.7

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.9	1.4	1.5	1.4	0.6	5.9
Total Del/Veh (s)	4.4	5.5	6.0	21.8	10.3	7.0
Stop Delay (hr)	0.4	0.5	0.0	1.3	0.6	2.8
Stop Del/Veh (s)	1.9	2.0	0.0	19.6	9.4	3.3

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.4
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.2	2.6	3.4	0.1	3.4	1.7	0.2	1.9
Total Delay (hr)	9.7	4.8	0.3	2.5	7.3	0.2	1.7	3.0	0.1	1.8	2.4	2.0
Total Del/Veh (s)	62.0	20.1	4.9	62.2	32.8	8.2	60.8	40.7	6.0	60.9	42.2	8.9
Stop Delay (hr)	8.6	3.9	0.2	2.3	5.8	0.1	1.6	2.5	0.1	1.7	2.1	0.6
Stop Del/Veh (s)	55.4	16.1	3.1	57.7	26.0	5.3	56.6	33.4	5.3	57.3	36.5	2.7

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.9
Denied Del/Veh (s)	0.8
Total Delay (hr)	35.8
Total Del/Veh (s)	30.5
Stop Delay (hr)	29.5
Stop Del/Veh (s)	25.1

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	4.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.1	0.2	0.0	0.1	0.2	0.0	0.0	0.1	0.7
Total Del/Veh (s)		9.1	2.3	4.7	8.8	3.0	3.7	1.8	1.5	3.6	8.8	3.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)		2.6	1.9	2.9	3.0	2.5	2.4	0.4	1.5	2.4	2.7	1.5

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.4	0.5
Denied Del/Veh (s)	0.0	0.0	1.3	3.1	0.9
Total Delay (hr)	0.2	3.0	0.7	0.5	4.5
Total Del/Veh (s)	3.4	10.9	20.0	4.0	8.8
Stop Delay (hr)	0.1	0.8	0.6	0.0	1.5
Stop Del/Veh (s)	1.2	3.0	16.9	0.0	2.9

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.4	3.4	0.6
Total Delay (hr)	0.2	0.8	0.3	0.1	1.4
Total Del/Veh (s)	4.4	9.3	9.1	4.5	7.6
Stop Delay (hr)	0.1	0.2	0.2	0.1	0.6
Stop Del/Veh (s)	1.5	2.9	6.7	3.8	3.5

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	3.2	0.8	0.2	0.1	0.4
Total Delay (hr)	1.7	0.7	1.0	2.6	3.7	0.2	9.8
Total Del/Veh (s)	16.3	6.7	35.9	15.8	27.7	4.5	17.3
Stop Delay (hr)	1.1	0.3	0.8	1.2	2.7	0.1	6.2
Stop Del/Veh (s)	10.7	3.2	30.7	7.0	20.0	3.7	10.9

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	3.2	0.8	0.0	0.0	0.0	0.0	0.6
Total Delay (hr)	1.4	0.1	0.7	0.7	0.6	1.0	4.6
Total Del/Veh (s)	15.4	3.7	4.6	7.2	28.8	9.5	9.2
Stop Delay (hr)	1.1	0.1	0.3	0.3	0.5	0.3	2.7
Stop Del/Veh (s)	12.2	3.0	2.2	2.8	22.8	3.2	5.4

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	4.1	0.7	3.5	3.7	0.3	0.2	3.5	0.2	3.6	0.0	0.0	0.0
Total Delay (hr)	0.1	1.2	0.2	0.5	0.3	0.1	0.5	1.0	0.1	2.3	1.5	0.0
Total Del/Veh (s)	31.7	16.4	6.0	26.7	10.1	2.8	27.3	18.4	4.3	48.8	15.1	3.0
Stop Delay (hr)	0.0	0.8	0.2	0.5	0.2	0.1	0.5	0.7	0.1	1.9	0.8	0.0
Stop Del/Veh (s)	28.9	11.3	4.7	24.4	6.4	2.3	24.2	12.9	2.8	41.2	8.1	2.2

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	1.0
Total Delay (hr)	7.9
Total Del/Veh (s)	18.0
Stop Delay (hr)	5.8
Stop Del/Veh (s)	13.3

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	3.9	6.9	2.0	1.6	4.4	2.0	0.6	0.8	0.4	2.1	2.4	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	2.4	2.4	1.8	1.2	1.8	2.1	0.0	0.0	0.0	0.4	0.3	0.3

18: Powerline Road & Bayou Road South Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.1
Total Delay (hr)	0.1
Total Del/Veh (s)	1.9
Stop Delay (hr)	0.0
Stop Del/Veh (s)	0.8

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.6	6.5	6.9	1.7	5.0	2.7	2.6	3.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.8	2.2	2.3	1.7	2.2	0.0	1.6	2.0

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.7	0.2	3.4	2.4	2.1	2.7	7.6	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.6	0.0	0.0	0.6	1.6	1.9	1.9	0.8

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.4	0.1	0.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.1

22: Metro Air Parkway & Meister Way Performance by movement

Movement	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.4	0.1	0.3
Total Delay (hr)	0.2	0.0	0.2
Total Del/Veh (s)	1.5	0.8	1.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0		0.1
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.1
Total Del/Veh (s)	1.6	0.0	0.7	0.7		0.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.2	0.0		0.0

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.2	0.1	0.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBL	WBT	WBR	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.3	0.3	0.7	0.1	1.5	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0	1.5	0.0

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	1.1	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.1	0.3	0.0	0.0	0.6
Total Del/Veh (s)	3.8	0.7	9.8	3.3	9.9	3.6	4.1
Stop Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.3
Stop Del/Veh (s)	1.7	0.5	8.1	1.1	8.6	3.6	2.2

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.2	0.0	0.3
Total Del/Veh (s)	1.6	1.5	1.8	2.5	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.3	0.1	2.5	0.3

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.9	0.1	4.0	0.1	0.2
Total Delay (hr)	0.3	0.0	0.4	0.3	0.0	0.1	1.2
Total Del/Veh (s)	6.7	2.0	10.6	3.0	17.3	3.9	5.3
Stop Delay (hr)	0.1	0.0	0.3	0.1	0.0	0.1	0.7
Stop Del/Veh (s)	3.1	2.2	8.1	0.6	15.8	3.8	3.0

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.1	0.0	0.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.1	0.2	0.0	0.3
Total Del/Veh (s)	4.6	3.1	3.3	7.6	8.3	2.0	5.5
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.9	2.6	1.9	2.3	2.4	1.7	2.4

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	3.5	0.3	0.8	0.0	0.0	0.0	0.3
Total Delay (hr)	0.0	0.3	0.1	0.0	0.0	0.0	0.5
Total Del/Veh (s)	8.2	4.8	2.5	0.5	1.0	0.1	2.8
Stop Delay (hr)	0.0	0.2	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	6.2	3.6	0.7	0.0	0.0	0.0	1.6

33: External Performance by approach

Approach	SE	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.7	0.7
Total Del/Veh (s)	3.0	3.0
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.3	0.3

34: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

36: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

37: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.1
Total Del/Veh (s)	1.3	0.5	0.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.2	0.2

41: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

43: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.4	0.4
Total Del/Veh (s)	3.2	3.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

44: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.3	1.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

48: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.4	0.4
Total Del/Veh (s)	2.9	2.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

50: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.2	0.3	0.5
Total Del/Veh (s)	1.7	2.5	2.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.4	0.2

51: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	0.6	1.0
Total Del/Veh (s)	3.3	5.0	4.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.1

52: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.7	0.3	1.0
Total Del/Veh (s)	4.1	1.2	2.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.1

55: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

59: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	1.9	1.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

61: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.6	1.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

65: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

66: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	1.0	2.6	1.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.2	0.1

74: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.2	0.2
Denied Del/Veh (s)	1.0	1.0
Total Delay (hr)	6.3	6.3
Total Del/Veh (s)	26.8	26.8
Stop Delay (hr)	5.9	5.9
Stop Del/Veh (s)	25.1	25.1

75: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

76: Bend Performance by approach

Approach	NB	All
Denied Delay (hr)	0.1	0.1
Denied Del/Veh (s)	0.2	0.2
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	0.9	0.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

84: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

85: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

86: Bend Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.6	0.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

89: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

92: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

94: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

96: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

99: External Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.6	0.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.0
Total Delay (hr)	0.5	0.1	0.0	0.6
Total Del/Veh (s)	1.5	0.4	0.3	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.1	0.0	0.4	0.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

103: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.4	0.4
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

104: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

108: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.2	0.3
Total Del/Veh (s)	0.6	1.5	1.3	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

202: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1
Total Del/Veh (s)	0.3	4.3	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	1.5	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.7	0.1	1.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

205: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.2	0.2
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

207: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	0.7	0.7
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

303: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.4	0.0	0.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

402: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

403: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

404: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.1	0.1
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

501: External Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

502: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

601: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.5	0.3	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.1	0.2

602: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	1.1	0.3	0.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	35.4	35.4
Denied Del/Veh (s)	0.0	0.0	0.0	222.5	68.3
Total Delay (hr)	0.1	0.2	0.8	13.3	14.4
Total Del/Veh (s)	1.6	1.9	4.8	94.4	28.8
Stop Delay (hr)	0.0	0.0	0.0	14.5	14.5
Stop Del/Veh (s)	0.0	0.1	0.1	103.1	29.0

702: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	0.2	0.6
Total Del/Veh (s)	3.7	1.6	2.4
Stop Delay (hr)	0.0	0.0	0.1
Stop Del/Veh (s)	0.3	0.3	0.3

703: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2
Total Del/Veh (s)	1.5	0.3	0.9
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.1

801: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.1	2.0	1.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.4	0.2

802: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.4	1.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.4	0.4

803: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	2.1	2.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	0.6	0.4	1.7
Total Del/Veh (s)	3.3	4.4	1.3	2.6
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.6	0.1	1.0	1.8
Total Del/Veh (s)	2.7	2.6	2.0	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	1.1	0.3	2.2
Total Del/Veh (s)	1.7	2.8	4.3	2.3
Stop Delay (hr)	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.3	0.1

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.2	4.2	4.4
Total Del/Veh (s)	0.5	8.8	4.8
Stop Delay (hr)	0.0	0.9	0.9
Stop Del/Veh (s)	0.0	2.0	1.0

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.1	0.6
Total Del/Veh (s)	1.8	0.9	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.1	1.1
Total Del/Veh (s)	4.5	4.5
Stop Delay (hr)	0.5	0.5
Stop Del/Veh (s)	1.8	1.8

1008: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.5	0.5
Total Del/Veh (s)	1.9	1.9
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.2	0.2

1009: Bend Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.3	0.3
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	0.5	0.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.1	1.1
Total Del/Veh (s)	8.7	8.7
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	2.6	2.6

1012: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	2.2	2.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

1101: Bend Performance by approach

Approach	SE	NW	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.2	1.0	1.2
Total Del/Veh (s)	1.2	3.9	2.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.2	0.1

1102: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.6	0.6
Total Del/Veh (s)	2.5	2.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

1103: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	2.1	2.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

1201: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	5.2	5.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.4	0.4

1204: Bend Performance by approach

Approach	NE	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	4.6	4.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.0
Total Delay (hr)	0.8	1.6	0.2	2.6
Total Del/Veh (s)	4.1	5.9	5.6	5.2
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1	0.1

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	1.7	1.7
Total Del/Veh (s)	0.5	0.8	5.4	4.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.1

1303: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1304: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.1	0.1
Total Delay (hr)	0.1	0.9	1.2	2.3
Total Del/Veh (s)	1.3	10.4	5.5	5.9
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.3	0.1	0.1	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.3	0.5
Total Del/Veh (s)	2.2	2.8	3.1	2.8
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.4	0.3	0.2	0.3

2001: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	8.1	8.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

2002: Bend Performance by approach

Approach	NE	SW	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.2	0.2
Total Del/Veh (s)	0.5	4.1	3.0
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.5	0.4

2101: Bend Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

2202: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.2
Total Del/Veh (s)	0.8	2.4	1.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.5	0.1

2301: Bend Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

2302: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.1
Total Del/Veh (s)	1.1	0.8	0.9
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

2601: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.2	0.2
Total Del/Veh (s)	0.2	1.8	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1

3301: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.1
Total Del/Veh (s)	0.1	2.3	1.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.2

3302: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	4.0	4.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

3401: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.2	0.2	0.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

3402: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

Total Network Performance

Denied Delay (hr)	39.6
Denied Del/Veh (s)	11.5
Total Delay (hr)	162.4
Total Del/Veh (s)	45.5
Stop Delay (hr)	101.1
Stop Del/Veh (s)	28.3

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	10
Average Queue (ft)	0
95th Queue (ft)	6
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	78
Average Queue (ft)	36
95th Queue (ft)	62
Link Distance (ft)	104
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	NB
Directions Served	LT	R	L
Maximum Queue (ft)	61	82	16
Average Queue (ft)	15	45	1
95th Queue (ft)	47	75	10
Link Distance (ft)	1586		
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		170	100
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	46	11
Average Queue (ft)	10	0
95th Queue (ft)	32	6
Link Distance (ft)	182	477
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 5: Garden Highway & Power Line Road

Movement	SB
Directions Served	LR
Maximum Queue (ft)	42
Average Queue (ft)	10
95th Queue (ft)	31
Link Distance (ft)	2214
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	57	10
Average Queue (ft)	24	1
95th Queue (ft)	47	8
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	42	226	274	230	195	200	238	393	66	10	259	109
Average Queue (ft)	8	130	175	65	82	95	76	208	19	0	146	28
95th Queue (ft)	29	202	254	179	151	157	166	331	48	7	237	74
Link Distance (ft)		290	290				881	881				425
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	0									
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		1	16		0	0	0				0	
Queuing Penalty (veh)		0	27		0	1	0				0	

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	SB	SB	SB	SB	SB
Directions Served	T	L	L	T	T	R
Maximum Queue (ft)	19	161	186	68	66	33
Average Queue (ft)	1	64	98	20	20	5
95th Queue (ft)	10	138	163	51	48	18
Link Distance (ft)	425			370	370	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		285	285		130	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	T	T	R	L	T	R	L	TR	L	LT	R
Maximum Queue (ft)	40	35	34	21	60	74	116	36	105	135	181	20
Average Queue (ft)	9	9	5	3	18	21	60	6	49	28	91	5
95th Queue (ft)	31	30	23	14	48	56	99	24	93	85	155	17
Link Distance (ft)		1136	1136			2326	2326		546		1094	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	180			140	250			150		135		135
Storage Blk Time (%)										0		3
Queuing Penalty (veh)										0		3

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	224	245	163	208	208	154	203	152	151	112
Average Queue (ft)	125	133	57	86	116	48	105	91	89	35
95th Queue (ft)	198	209	124	169	195	98	168	137	138	86
Link Distance (ft)	177	177	213	213	213		1298	1298		
Upstream Blk Time (%)	2	3		0	0					
Queuing Penalty (veh)	8	10		0	1					
Storage Bay Dist (ft)						135		450	450	
Storage Blk Time (%)						0	3			
Queuing Penalty (veh)						0	5			

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	134	156	134	200	108	124	145
Average Queue (ft)	52	63	52	92	47	66	68
95th Queue (ft)	108	122	109	164	87	104	114
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)		0					
Queuing Penalty (veh)		0					
Storage Bay Dist (ft)					200	200	
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	242	329	320	282	235	214	84	158	196	220	253	280
Average Queue (ft)	131	191	198	113	120	120	42	40	98	133	152	143
95th Queue (ft)	203	280	280	206	193	196	72	122	164	215	238	242
Link Distance (ft)				685	685	685				916	916	916
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	0	0	0	0		1			0	0		11
Queuing Penalty (veh)	0	1	1	1		2			0	0		8

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	195	102	135	173	149	88	48	103	129	155	128	381
Average Queue (ft)	29	17	61	83	64	9	17	31	60	66	49	29
95th Queue (ft)	106	58	112	147	127	48	39	77	105	121	102	168
Link Distance (ft)				1093	1093	1093				904	904	904
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245				145	285	285			
Storage Blk Time (%)						0						
Queuing Penalty (veh)						0						

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	382
Average Queue (ft)	140
95th Queue (ft)	318
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	1
Queuing Penalty (veh)	1

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	10	80	72	80	73	73	42	68
Average Queue (ft)	0	37	30	42	35	33	5	21
95th Queue (ft)	5	67	62	71	62	61	24	54
Link Distance (ft)		1456				725		744
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	370		350		400		400	
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	WB	NB
Directions Served	T	T	L
Maximum Queue (ft)	97	294	130
Average Queue (ft)	30	143	63
95th Queue (ft)	74	250	112
Link Distance (ft)	324	456	1215
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	WB	SB	SB
Directions Served	T	T	L	R
Maximum Queue (ft)	78	123	103	81
Average Queue (ft)	20	59	47	33
95th Queue (ft)	53	106	83	65
Link Distance (ft)	418	259	1221	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				400
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	L	R
Maximum Queue (ft)	126	135	140	133	269	382	90
Average Queue (ft)	58	67	63	64	151	201	27
95th Queue (ft)	103	115	104	115	254	335	61
Link Distance (ft)	1361	1361			1391	1879	1879
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)			250	200			
Storage Blk Time (%)					2		
Queuing Penalty (veh)					2		

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	SB	SB
Directions Served	L	R	T	T	R	L	T
Maximum Queue (ft)	186	49	91	103	148	100	168
Average Queue (ft)	104	23	31	42	59	48	67
95th Queue (ft)	163	43	71	85	107	86	132
Link Distance (ft)		1114	1805	1805	1805		2734
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	275					190	
Storage Blk Time (%)							0
Queuing Penalty (veh)							0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	35	170	77	99	81	54	95	108	92	60	201	184
Average Queue (ft)	6	81	32	40	29	24	41	50	37	23	100	84
95th Queue (ft)	24	139	62	79	65	45	78	89	75	48	174	156
Link Distance (ft)		983			1124	1124		1367	1367			4034
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		1					0	1			1	0
Queuing Penalty (veh)		1					0	1			2	0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	13
Average Queue (ft)	1
95th Queue (ft)	7
Link Distance (ft)	4034
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	61	31	10	10
Average Queue (ft)	26	7	0	0
95th Queue (ft)	49	27	6	5
Link Distance (ft)	948	1380	2214	2379
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	31	44	40
Average Queue (ft)	9	18	13
95th Queue (ft)	31	41	37
Link Distance (ft)	1597	1351	477
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	60	71	48
Average Queue (ft)	23	31	11
95th Queue (ft)	47	56	35
Link Distance (ft)	1503	2379	1285
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 22: Metro Air Parkway & Meister Way

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	WB	NB
Directions Served	LT	LR
Maximum Queue (ft)	20	6
Average Queue (ft)	1	0
95th Queue (ft)	7	4
Link Distance (ft)	905	507
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	19
Average Queue (ft)	1
95th Queue (ft)	9
Link Distance (ft)	268
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	60	50	30	38	98	133	57	50	59
Average Queue (ft)	12	5	2	2	30	29	2	10	19
95th Queue (ft)	41	27	15	14	72	95	20	35	45
Link Distance (ft)	566	566	566			707	707	842	842
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)				150	250				
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	61
Average Queue (ft)	18
95th Queue (ft)	44
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	R	L	L	T	T	L	R	R
Maximum Queue (ft)	71	90	30	57	106	82	49	40	60	42
Average Queue (ft)	21	21	5	12	51	21	6	7	26	16
95th Queue (ft)	57	62	21	41	90	64	28	27	52	36
Link Distance (ft)	972	972	972			970	970		840	840
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)				430	430			150		
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	50	46	57	56
Average Queue (ft)	30	18	23	28
95th Queue (ft)	47	42	51	49
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	EB	NB	NB
Directions Served	L	R	L	T
Maximum Queue (ft)	31	119	67	6
Average Queue (ft)	5	55	22	0
95th Queue (ft)	24	88	52	4
Link Distance (ft)		680		489
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100		200	
Storage Blk Time (%)		0		
Queuing Penalty (veh)		0		

Intersection: 74:

Movement	EB
Directions Served	T
Maximum Queue (ft)	532
Average Queue (ft)	253
95th Queue (ft)	558
Link Distance (ft)	661
Upstream Blk Time (%)	2
Queuing Penalty (veh)	12
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement

NB

Directions Served T
Maximum Queue (ft) 24
Average Queue (ft) 1
95th Queue (ft) 9
Link Distance (ft) 164
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 204: I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	EB	WB	WB	WB	SB	SB
Directions Served	T	T	T	T	R	L	R
Maximum Queue (ft)	11	18	16	21	94	362	351
Average Queue (ft)	0	1	1	1	5	332	313
95th Queue (ft)	5	7	7	8	41	379	429
Link Distance (ft)	655	655	290	290	290	316	316
Upstream Blk Time (%)						96	84
Queuing Penalty (veh)						0	0
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1002: Del Paso Road

Movement	WB
Directions Served	T
Maximum Queue (ft)	4
Average Queue (ft)	0
95th Queue (ft)	3
Link Distance (ft)	200
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1003: Del Paso Road

Movement	EB	WB	WB
Directions Served	TR	T	T
Maximum Queue (ft)	20	9	7
Average Queue (ft)	1	0	0
95th Queue (ft)	14	7	5
Link Distance (ft)	748	177	177
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	WB	WB	WB	WB
Directions Served	T	T	T	T
Maximum Queue (ft)	275	310	572	232
Average Queue (ft)	9	30	78	35
95th Queue (ft)	135	239	341	139
Link Distance (ft)	685	685	685	685
Upstream Blk Time (%)		0	0	
Queuing Penalty (veh)		0	0	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1006: I-5 Southbound Ramps

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	84	93
Average Queue (ft)	52	58
95th Queue (ft)	80	79
Link Distance (ft)	167	167
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	143
Average Queue (ft)	77
95th Queue (ft)	130
Link Distance (ft)	1020
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement	WB
Directions Served	TR
Maximum Queue (ft)	96
Average Queue (ft)	5
95th Queue (ft)	59
Link Distance (ft)	291
Upstream Blk Time (%)	0
Queuing Penalty (veh)	1
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 90

Summary of All Intervals

Run Number	1	2	5	6	7	Avg
Start Time	2:45	2:45	2:45	2:45	2:45	2:45
End Time	4:00	4:00	4:00	4:00	4:00	4:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	12394	12228	12347	12131	12169	12248
Vehs Exited	12363	12222	12285	12130	12215	12245
Starting Vehs	465	450	441	499	506	464
Ending Vehs	496	456	503	500	460	471
Travel Distance (mi)	12987	13062	13083	12930	13214	13055
Travel Time (hr)	484.4	489.5	481.6	470.0	483.8	481.9
Total Delay (hr)	135.5	139.9	130.4	123.1	130.1	131.8
Total Stops	13384	13346	13152	12903	13256	13212
Fuel Used (gal)	484.7	488.7	487.8	479.9	489.8	486.2

Interval #0 Information Seeding

Start Time	2:45
End Time	3:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	3:00
End Time	4:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	1	2	5	6	7	Avg
Vehs Entered	12394	12228	12347	12131	12169	12248
Vehs Exited	12363	12222	12285	12130	12215	12245
Starting Vehs	465	450	441	499	506	464
Ending Vehs	496	456	503	500	460	471
Travel Distance (mi)	12987	13062	13083	12930	13214	13055
Travel Time (hr)	484.4	489.5	481.6	470.0	483.8	481.9
Total Delay (hr)	135.5	139.9	130.4	123.1	130.1	131.8
Total Stops	13384	13346	13152	12903	13256	13212
Fuel Used (gal)	484.7	488.7	487.8	479.9	489.8	486.2

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.4	0.0	0.0	0.4
Denied Del/Veh (s)		2.6	0.0	0.0	1.0
Total Delay (hr)	0.0	0.2	0.0	0.1	0.3
Total Del/Veh (s)		1.2	0.0	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)		0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.2	2.3	1.2	0.8	0.5	2.3
Stop Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.0	2.5	0.0	0.0	0.0	1.7

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	0.5	0.8	2.4	0.0	0.0	0.2	3.6	1.5
Total Delay (hr)	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.6
Total Del/Veh (s)	5.6	8.6	5.1	1.6	2.1	1.3	0.7	3.5
Stop Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	3.2	2.8	2.9	0.7	0.2	0.0	0.0	1.6

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.0	0.2	1.0	3.4	0.7	1.1	0.6	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	2.6	0.0	0.0	1.6	0.2	0.0	0.0	0.3

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.1	0.1	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	0.5	0.3	0.3	0.1	2.6	1.5	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.0	1.7	1.5	0.6

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	3.3	0.3	1.9	0.5	0.1	0.9	0.3	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	2.0	0.0	1.4	0.0	0.0	0.0	0.0	0.3

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	3.6	0.2	3.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4
Total Delay (hr)	0.1	1.8	0.1	2.0	1.7	0.2	0.8	0.5	0.1	1.4	0.6	0.0
Total Del/Veh (s)	40.2	23.8	5.1	26.9	13.2	3.0	27.2	33.4	1.6	22.6	27.0	2.7
Stop Delay (hr)	0.1	1.4	0.1	1.7	1.2	0.1	0.8	0.5	0.0	1.3	0.5	0.0
Stop Del/Veh (s)	37.2	18.0	4.0	23.2	9.1	1.6	25.0	28.2	0.0	20.8	22.6	3.1

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	9.4
Total Del/Veh (s)	16.2
Stop Delay (hr)	7.5
Stop Del/Veh (s)	13.0

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	1.0	0.0	0.0	0.0	4.4	0.1	0.1	0.1	0.1	0.2
Total Delay (hr)	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5
Total Del/Veh (s)	5.0	1.5	9.8	3.3	0.8	9.7	21.1	2.4	8.6	10.9	5.4
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Stop Del/Veh (s)	2.9	1.7	8.0	1.7	0.6	8.4	17.2	2.8	7.2	6.9	4.0

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	2.9	2.3	2.3	5.6	13.1
Total Del/Veh (s)	13.5	7.1	25.0	16.3	13.5
Stop Delay (hr)	2.1	1.1	2.0	3.4	8.6
Stop Del/Veh (s)	9.8	3.4	21.1	10.0	8.8

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.5	1.0	0.9	1.9	0.3	4.5
Total Del/Veh (s)	3.5	4.1	4.7	23.1	8.0	6.6
Stop Delay (hr)	0.2	0.3	0.0	1.7	0.2	2.5
Stop Del/Veh (s)	1.6	1.4	0.0	20.7	7.1	3.6

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.0	0.2	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	2.3	2.9	0.2	2.9	0.7	0.0	0.8
Total Delay (hr)	11.2	4.6	0.2	3.4	7.2	0.3	14.0	4.7	0.5	1.8	1.5	0.4
Total Del/Veh (s)	54.3	16.5	5.0	56.9	30.2	10.5	157.0	50.2	8.2	58.0	49.4	3.9
Stop Delay (hr)	9.7	3.6	0.2	3.1	5.6	0.2	13.1	3.8	0.4	1.7	1.4	0.1
Stop Del/Veh (s)	46.7	12.9	3.1	52.0	23.6	7.4	146.7	40.3	6.5	54.8	44.1	0.9

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.6
Total Delay (hr)	49.9
Total Del/Veh (s)	39.7
Stop Delay (hr)	42.8
Stop Del/Veh (s)	34.0

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	3.3	0.2	0.2	0.1	0.2	0.2	0.0	0.0	0.0	4.1	0.2	0.1
Total Delay (hr)	0.0	0.8	0.4	0.0	0.6	0.0	0.6	0.2	0.0	0.0	0.1	0.0
Total Del/Veh (s)	8.6	16.0	7.9	6.1	11.1	4.6	7.8	9.6	2.9	4.1	11.2	6.6
Stop Delay (hr)	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.1	0.0	0.0	0.1	0.0
Stop Del/Veh (s)	4.6	5.7	4.6	4.5	5.0	3.7	4.6	3.2	2.5	3.0	4.5	6.7

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	2.8
Total Del/Veh (s)	9.8
Stop Delay (hr)	1.3
Stop Del/Veh (s)	4.6

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.7	0.8
Denied Del/Veh (s)	0.0	0.0	2.0	3.2	1.6
Total Delay (hr)	0.4	0.9	0.6	0.9	2.7
Total Del/Veh (s)	5.1	6.1	12.7	3.9	5.6
Stop Delay (hr)	0.1	0.2	0.5	0.0	0.8
Stop Del/Veh (s)	1.7	1.7	9.4	0.0	1.7

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	3.6	0.3
Total Delay (hr)	0.2	0.4	0.3	0.1	1.0
Total Del/Veh (s)	3.9	4.7	8.6	3.8	4.9
Stop Delay (hr)	0.1	0.1	0.2	0.1	0.4
Stop Del/Veh (s)	1.1	1.4	6.4	3.3	2.2

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	3.3	0.5	0.0	0.0	0.0	0.2
Total Delay (hr)	2.1	0.6	0.5	0.8	1.1	0.0	0.2	5.4
Total Del/Veh (s)	10.5	6.2	26.0	6.7	20.7	0.7	6.2	9.5
Stop Delay (hr)	0.9	0.2	0.5	0.3	0.9	0.0	0.1	3.0
Stop Del/Veh (s)	4.8	2.2	23.2	2.4	17.1	0.0	5.4	5.3

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	3.4	0.5	0.0	0.0	0.0	0.0	0.4
Total Delay (hr)	0.7	0.0	1.0	0.7	0.2	0.8	3.4
Total Del/Veh (s)	13.4	4.0	4.4	7.2	22.8	6.5	6.7
Stop Delay (hr)	0.6	0.0	0.4	0.2	0.1	0.2	1.6
Stop Del/Veh (s)	11.1	3.7	1.6	2.2	17.9	1.8	3.0

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	3.7	0.4	3.8	3.4	0.3	0.2	3.4	0.2	3.4	0.0	0.0	0.0
Total Delay (hr)	0.1	0.6	0.1	0.7	0.8	0.1	0.6	1.0	0.1	0.9	1.0	0.0
Total Del/Veh (s)	28.8	14.7	4.7	27.9	12.6	3.3	24.6	16.4	4.1	32.2	12.0	4.7
Stop Delay (hr)	0.1	0.4	0.0	0.6	0.5	0.1	0.6	0.7	0.1	0.8	0.6	0.0
Stop Del/Veh (s)	26.5	10.5	4.1	25.0	7.8	2.6	21.6	10.9	2.3	27.2	7.3	4.3

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.9
Total Delay (hr)	6.0
Total Del/Veh (s)	14.7
Stop Delay (hr)	4.4
Stop Del/Veh (s)	10.8

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay (hr)	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total Del/Veh (s)	6.9	9.8	5.1	3.1	6.7	0.3	0.1	0.0	2.7	3.0	2.6	5.4
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.8	2.7	2.6	2.2	2.5	0.0	0.0	0.0	0.3	0.3	0.3	2.0

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	3.7	7.0	6.6	1.2	4.8	2.4	3.2	4.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.0	2.3	2.2	1.6	2.0	0.2	1.9	1.9

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3
Total Del/Veh (s)	2.7	0.3	3.0	9.4	2.9	1.4	8.0	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	1.7	0.0	0.0	2.3	1.9	1.1	2.0	0.6

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	0.5	0.1	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.2

22: Metro Air Parkway & Meister Way Performance by movement

Movement	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.1	0.2
Total Delay (hr)	0.1	0.1	0.2
Total Del/Veh (s)	1.4	0.6	1.0
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.0	0.1	0.1
Total Delay (hr)	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	1.6	0.0	0.4	2.5	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	2.7	0.0

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.1	0.1	0.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.3	0.2	0.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.0	0.0		0.1	0.0
Total Delay (hr)	0.3	0.0	0.2	0.1	0.0	0.0	0.6
Total Del/Veh (s)	3.5	1.0	8.2	1.6		3.8	3.4
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	1.3	1.1	7.0	0.5		3.9	1.8

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.1	0.0	0.3
Total Del/Veh (s)	1.6	0.9	1.3	2.2	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.1	0.0	2.4	0.1

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.2	0.0	5.9	0.1	0.1
Total Delay (hr)	0.6	0.0	0.3	0.2	0.0	0.2	1.3
Total Del/Veh (s)	6.6	1.3	10.1	2.7	34.6	4.6	5.5
Stop Delay (hr)	0.3	0.0	0.3	0.1	0.0	0.1	0.7
Stop Del/Veh (s)	2.7	1.3	8.5	0.7	33.0	4.5	3.1

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.2	0.1	0.1
Total Delay (hr)	0.0	0.0	0.1	0.1	0.2	0.0	0.4
Total Del/Veh (s)	4.6	3.2	3.7	4.2	8.4	2.1	5.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	2.8	2.7	2.0	1.2	2.3	1.8	2.0

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.3
Total Del/Veh (s)	3.7	2.1	0.3	0.6	0.1	1.7
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.9	0.5	0.0	0.0	0.0	0.8

33: External Performance by approach

Approach	SE	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	2.0	2.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

34: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.7	0.7
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

37: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.2	0.4	0.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.1	0.2

40: Bend Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.6	0.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

43: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.7	0.7
Total Del/Veh (s)	3.1	3.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

44: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.5	1.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

48: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	2.9	2.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

50: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	0.3	0.6
Total Del/Veh (s)	2.6	2.1	2.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.2

51: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.6	1.1
Total Del/Veh (s)	3.9	4.8	4.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.1

52: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.5	0.9
Total Del/Veh (s)	3.5	1.5	2.0
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0

55: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.0	1.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

59: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.6	1.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

61: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	2.1	2.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

65: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

66: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	2.8	2.7	2.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.2	0.2

74: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.4	0.4
Total Del/Veh (s)	3.9	3.9
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.9	0.9

75: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	2.4	2.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

76: Bend Performance by approach

Approach	NB	All
Denied Delay (hr)	0.2	0.2
Denied Del/Veh (s)	0.3	0.3
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	1.8	1.8
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

84: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

85: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

92: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	1.0	1.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

94: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

96: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.9	0.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

99: External Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.6	0.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.2	0.1
Total Delay (hr)	0.2	0.1	0.0	0.3
Total Del/Veh (s)	1.1	0.4	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.0	0.0	0.5	0.4
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

103: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	0.9	0.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

104: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

108: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.3	0.4
Total Del/Veh (s)	0.5	1.6	1.6	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0

202: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	0.3	5.7	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	2.6	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.5	0.1	1.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

205: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.1	0.1
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

207: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	0.8	0.8
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

303: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.5	0.1	0.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

402: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

403: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

404: Bend Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.1	0.1
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.0	0.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

501: External Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

502: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.5	0.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

601: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.3	0.5	0.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.2	0.2

602: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	1.4	0.2	0.9
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.3	0.0	0.3
Total Del/Veh (s)	0.1	2.0	2.1	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.2	0.2	0.1

702: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.4	0.2	0.6
Total Del/Veh (s)	3.9	1.5	2.7
Stop Delay (hr)	0.0	0.0	0.1
Stop Del/Veh (s)	0.3	0.3	0.3

703: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.3	0.2	0.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.1

801: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.4	0.9	0.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1

802: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.5	0.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

803: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.9	0.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.4	0.2	0.3	0.9
Total Del/Veh (s)	2.5	2.9	1.1	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1003: Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.8	1.3
Total Del/Veh (s)	2.1	1.8	1.9
Stop Delay (hr)	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	0.6	0.3	1.7
Total Del/Veh (s)	1.5	1.7	3.4	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.0	0.1	0.1

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.4	2.7	3.1
Total Del/Veh (s)	0.8	6.1	3.1
Stop Delay (hr)	0.0	0.6	0.6
Stop Del/Veh (s)	0.0	1.4	0.6

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	0.1	0.4
Total Del/Veh (s)	1.7	0.9	1.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	4.1	4.1
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.7	1.7

1008: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	1.1	1.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

1009: Bend Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.3	0.3
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	0.5	0.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	4.4	4.4
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.9	0.9

1012: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.4	1.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

1101: Bend Performance by approach

Approach	SE	NW	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	1.4	1.5
Total Del/Veh (s)	0.9	4.3	3.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1

1102: External Performance by approach

Approach	EB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.6	0.6
Total Del/Veh (s)	2.2	2.2
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.2	0.2

1103: External Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	1.6	1.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

1201: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	4.7	4.7
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

1204: Bend Performance by approach

Approach	NE	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	4.8	4.8
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	0.4	0.1	1.3
Total Del/Veh (s)	2.8	3.0	2.6	2.8
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1	0.1

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.5	0.5
Total Del/Veh (s)	0.9	0.1	2.5	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.1

1303: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.1	0.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1304: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.6	0.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.3	0.1	0.5
Total Del/Veh (s)	1.4	3.1	0.8	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.2	0.1	0.2	0.5
Total Del/Veh (s)	2.3	2.5	2.2	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.3	0.2	0.2	0.2

2001: External Performance by approach

Approach	NB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	7.2	7.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

2002: Bend Performance by approach

Approach	NE	SW	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.5	0.5
Total Del/Veh (s)	0.4	3.6	3.0
Stop Delay (hr)	0.0	0.1	0.1
Stop Del/Veh (s)	0.2	0.6	0.5

2101: Bend Performance by approach

Approach	SB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

2202: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.2
Total Del/Veh (s)	0.7	1.6	1.0
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.5	0.2

2301: Bend Performance by approach

Approach	SW	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.2	0.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.0	0.0

2302: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.2	0.3	0.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

2601: Bend Performance by approach

Approach	EB	WB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1
Total Del/Veh (s)	0.2	0.7	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

3301: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.1
Total Del/Veh (s)	0.4	2.9	1.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.1

3302: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	3.8	3.8
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.2	0.2

3401: Bend Performance by approach

Approach	NB	SB	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.1	0.2	0.2
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

3402: External Performance by approach

Approach	WB	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.1	0.1

Total Network Performance

Denied Delay (hr)	3.6
Denied Del/Veh (s)	1.1
Total Delay (hr)	128.2
Total Del/Veh (s)	36.3
Stop Delay (hr)	77.8
Stop Del/Veh (s)	22.0

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	4
Average Queue (ft)	0
95th Queue (ft)	3
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	56
Average Queue (ft)	27
95th Queue (ft)	49
Link Distance (ft)	104
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	NB
Directions Served	LT	R	L
Maximum Queue (ft)	41	112	19
Average Queue (ft)	13	58	1
95th Queue (ft)	38	89	8
Link Distance (ft)	1586		
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		170	100
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	NB	SB
Directions Served	LR	LT	R
Maximum Queue (ft)	46	30	8
Average Queue (ft)	17	2	0
95th Queue (ft)	37	15	4
Link Distance (ft)	182	476	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			130
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	5	42
Average Queue (ft)	0	17
95th Queue (ft)	4	35
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	44	26
Average Queue (ft)	21	1
95th Queue (ft)	40	11
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	33	126	144	47	121	134	151	165	88	34	137	99
Average Queue (ft)	4	65	52	19	60	79	60	81	36	1	56	32
95th Queue (ft)	20	114	105	40	103	121	117	141	74	13	107	72
Link Distance (ft)							883	883				425
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)			0									
Queuing Penalty (veh)			0									

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	SB	SB	SB	SB	SB
Directions Served	T	L	L	T	T	R
Maximum Queue (ft)	41	98	134	60	46	17
Average Queue (ft)	3	38	66	24	17	3
95th Queue (ft)	21	81	111	51	41	13
Link Distance (ft)	425			405	405	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		285	285		130	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	T	T	R	L	T	R	L	TR	L	LT
Maximum Queue (ft)	50	25	20	64	47	38	27	27	9	40
Average Queue (ft)	15	4	3	31	7	5	5	11	0	12
95th Queue (ft)	39	17	15	59	29	24	20	26	5	32
Link Distance (ft)	1136	1136			1460	1460		546		1094
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)			140	250			150		135	
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	177	168	158	189	200	161	216	324	311	253
Average Queue (ft)	95	100	68	84	101	54	103	146	151	84
95th Queue (ft)	157	158	137	157	174	109	168	247	252	195
Link Distance (ft)	177	177	213	213	213		1298	1298		
Upstream Blk Time (%)	0	0		0	0					
Queuing Penalty (veh)	2	1		0	0					
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						0	4			
Queuing Penalty (veh)						1	6			

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	89	98	129	158	113	120	96
Average Queue (ft)	37	40	46	59	61	76	45
95th Queue (ft)	79	85	98	129	100	114	77
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					200	200	
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	256	338	345	357	299	237	137	175	194	218	270	298
Average Queue (ft)	148	222	228	117	113	116	41	78	127	125	143	158
95th Queue (ft)	235	327	326	272	214	198	92	172	195	200	224	255
Link Distance (ft)				685	685	685				916	916	916
Upstream Blk Time (%)				0	0							
Queuing Penalty (veh)				2	0							
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	0	1	1	1		1				0		12
Queuing Penalty (veh)	0	2	3	4		1				0		13

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	290	327	584	513	136	90	104	111	87	74	43
Average Queue (ft)	47	213	253	203	158	35	39	35	54	36	27	10
95th Queue (ft)	148	340	371	525	427	105	74	80	95	71	61	31
Link Distance (ft)				1093	1093	1093				904	904	904
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245				145	285	285			
Storage Blk Time (%)		5	32			0						
Queuing Penalty (veh)		6	36			0						

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	150
Average Queue (ft)	32
95th Queue (ft)	113
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	31	150	30	121	96	74	44	55
Average Queue (ft)	3	71	10	53	53	32	13	26
95th Queue (ft)	16	124	33	92	85	57	36	49
Link Distance (ft)		1456				725		744
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	370		350		400		400	
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	WB	NB
Directions Served	T	T	L
Maximum Queue (ft)	109	164	110
Average Queue (ft)	41	62	59
95th Queue (ft)	85	123	96
Link Distance (ft)	324	363	1215
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	WB	SB	SB
Directions Served	T	T	L	R
Maximum Queue (ft)	78	96	80	62
Average Queue (ft)	26	40	38	25
95th Queue (ft)	63	80	68	50
Link Distance (ft)	418	282	1221	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				400
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	L	R
Maximum Queue (ft)	124	145	102	110	148	160	76
Average Queue (ft)	66	78	54	44	66	79	24
95th Queue (ft)	111	128	85	83	127	138	54
Link Distance (ft)	1361	1361			1391	1879	1879
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)			250	200			
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	SB	SB
Directions Served	L	R	T	T	R	L	T
Maximum Queue (ft)	126	38	114	156	132	61	147
Average Queue (ft)	60	11	31	51	60	21	51
95th Queue (ft)	104	29	77	105	108	52	113
Link Distance (ft)		1114	1805	1805	1805		2734
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	275					190	
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	44	106	47	96	145	60	100	98	112	58	114	156
Average Queue (ft)	9	45	13	45	58	25	50	44	44	28	53	62
95th Queue (ft)	31	87	34	85	114	49	86	81	88	49	100	122
Link Distance (ft)		983			1124	1124			1367	1367		4034
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		0			0		0	0	0			0
Queuing Penalty (veh)		0			0		0	0	0			0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	14
Average Queue (ft)	3
95th Queue (ft)	11
Link Distance (ft)	4034
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	WB
Directions Served	LTR	LTR
Maximum Queue (ft)	98	30
Average Queue (ft)	52	5
95th Queue (ft)	83	22
Link Distance (ft)	948	1380
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	50	30	31
Average Queue (ft)	28	6	18
95th Queue (ft)	45	26	40
Link Distance (ft)	1605	1351	476
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	46	58	46
Average Queue (ft)	18	32	17
95th Queue (ft)	36	49	41
Link Distance (ft)	1503	2379	1285
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 22: Metro Air Parkway & Meister Way

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement NB

Directions Served LR
Maximum Queue (ft) 21
Average Queue (ft) 2
95th Queue (ft) 12
Link Distance (ft) 507
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	73	57	28	25	56	73	6	4	37
Average Queue (ft)	24	12	3	1	29	10	0	0	15
95th Queue (ft)	59	38	17	11	50	43	5	3	32
Link Distance (ft)	566	566	566			707	707	842	842
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)				150	250				
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	22
Average Queue (ft)	9
95th Queue (ft)	27
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	R	L	L	T	T	L	R	R
Maximum Queue (ft)	112	99	25	39	76	76	36	20	61	45
Average Queue (ft)	33	30	2	9	36	16	3	1	25	17
95th Queue (ft)	79	72	13	31	62	51	20	10	47	34
Link Distance (ft)	972	972	972			970	970		840	840
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)				430	430			150		
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	45	55	40	58
Average Queue (ft)	25	27	21	30
95th Queue (ft)	48	49	44	46
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	NB
Directions Served	R	L
Maximum Queue (ft)	62	69
Average Queue (ft)	37	17
95th Queue (ft)	58	48
Link Distance (ft)	680	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		200
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	T
Maximum Queue (ft)	79
Average Queue (ft)	40
95th Queue (ft)	68
Link Distance (ft)	696
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement NB

Directions Served T
Maximum Queue (ft) 31
Average Queue (ft) 1
95th Queue (ft) 10
Link Distance (ft) 164
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 204: I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement **WB**

Directions Served T
Maximum Queue (ft) 6
Average Queue (ft) 0
95th Queue (ft) 4
Link Distance (ft) 978
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1002: Del Paso Road

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1003: Del Paso Road

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	WB	WB	WB
Directions Served	T	T	T	T
Maximum Queue (ft)	29	138	309	178
Average Queue (ft)	1	9	20	12
95th Queue (ft)	20	134	151	102
Link Distance (ft)	370	685	685	685
Upstream Blk Time (%)		0	0	
Queuing Penalty (veh)		0	0	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1006: I-5 Southbound Ramps

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	80	81
Average Queue (ft)	43	53
95th Queue (ft)	75	74
Link Distance (ft)	167	167
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	91
Average Queue (ft)	33
95th Queue (ft)	71
Link Distance (ft)	1032
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 78

APPENDIX D:

SimTraffic Reports – Baseline

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	13845	13814	13983	13814	13778	13842
Vehs Exited	13821	13785	13815	13889	13771	13817
Starting Vehs	588	522	518	589	590	556
Ending Vehs	612	551	686	514	597	595
Travel Distance (mi)	14263	14173	14438	14188	14175	14247
Travel Time (hr)	690.5	623.7	647.6	624.0	639.2	645.0
Total Delay (hr)	304.8	240.9	257.8	241.0	256.3	260.2
Total Stops	18307	16786	17843	17194	16973	17414
Fuel Used (gal)	566.5	550.5	564.7	549.1	552.7	556.7

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	13845	13814	13983	13814	13778	13842
Vehs Exited	13821	13785	13815	13889	13771	13817
Starting Vehs	588	522	518	589	590	556
Ending Vehs	612	551	686	514	597	595
Travel Distance (mi)	14263	14173	14438	14188	14175	14247
Travel Time (hr)	690.5	623.7	647.6	624.0	639.2	645.0
Total Delay (hr)	304.8	240.9	257.8	241.0	256.3	260.2
Total Stops	18307	16786	17843	17194	16973	17414
Fuel Used (gal)	566.5	550.5	564.7	549.1	552.7	556.7

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.8	0.0	0.0	0.8
Denied Del/Veh (s)	1.4	2.8	0.0	0.0	1.6
Total Delay (hr)	0.0	0.6	0.0	0.1	0.7
Total Del/Veh (s)	9.8	2.1	0.1	0.3	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	7.5	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.3
Total Del/Veh (s)	4.3	1.1	2.4	1.6	1.2	0.5	3.4
Stop Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.0	0.0	2.7	0.0	0.0	0.0	2.2

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	1.2	1.0	2.7	0.0	0.0	0.0	0.0	1.2
Total Delay (hr)	0.0	0.0	0.8	0.2	0.4	0.4	0.2	1.9
Total Del/Veh (s)	9.9	10.5	6.4	19.7	9.3	6.2	4.6	7.1
Stop Delay (hr)	0.0	0.0	0.4	0.1	0.2	0.2	0.0	1.0
Stop Del/Veh (s)	7.1	6.1	3.2	16.6	4.0	3.1	1.4	3.6

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.5	0.0	0.0	0.1	0.0	0.3	0.9
Total Del/Veh (s)	13.2	2.3	9.5	7.4	5.2	6.1	8.8
Stop Delay (hr)	0.4	0.0	0.0	0.1	0.0	0.1	0.6
Stop Del/Veh (s)	11.5	1.1	7.8	4.2	1.4	2.5	6.0

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	0.8	0.1	1.0	0.2	2.6	0.5	1.2	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.0	0.0	1.7	0.2	1.4	0.3

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	2.8	0.8	1.8	0.5	0.2	0.7	0.3	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.8	0.0	1.5	0.0	0.0	0.1	0.0	0.6

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	1.2	0.0	0.0	0.0
Total Delay (hr)	0.1	5.3	0.4	3.4	4.3	0.1	3.4	0.5	0.4	2.7	0.9	0.0
Total Del/Veh (s)	45.5	30.8	7.7	39.8	21.1	1.8	42.7	42.2	4.4	35.3	26.3	9.7
Stop Delay (hr)	0.1	4.3	0.3	3.0	2.9	0.0	2.8	0.4	0.0	2.5	0.7	0.0
Stop Del/Veh (s)	43.4	25.4	6.3	35.4	14.2	1.0	35.0	34.5	0.2	32.8	22.8	10.0

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.2
Total Delay (hr)	21.3
Total Del/Veh (s)	25.8
Stop Delay (hr)	17.1
Stop Del/Veh (s)	20.7

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.9	0.0	1.7	0.0	0.0	0.0	4.0	0.2	0.3	0.3	0.3	3.6
Total Delay (hr)	0.1	0.1	0.0	0.2	0.2	0.5	0.1	0.5	0.2	1.0	0.4	0.0
Total Del/Veh (s)	26.2	13.2	2.3	23.9	14.6	6.7	18.2	18.6	9.1	16.7	17.1	2.9
Stop Delay (hr)	0.1	0.1	0.0	0.2	0.1	0.3	0.1	0.4	0.1	0.8	0.3	0.0
Stop Del/Veh (s)	25.1	10.1	2.8	21.8	11.1	4.1	15.8	13.6	8.0	13.5	11.8	2.5

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.2
Total Del/Veh (s)	13.2
Stop Delay (hr)	2.4
Stop Del/Veh (s)	10.1

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.4	0.3	0.1
Total Delay (hr)	3.0	2.2	3.8	6.8	15.8
Total Del/Veh (s)	14.3	5.3	42.0	27.6	16.4
Stop Delay (hr)	2.2	0.7	3.3	5.3	11.5
Stop Del/Veh (s)	10.4	1.7	36.4	21.5	11.9

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.9	1.4	1.5	1.4	0.0	0.6	5.8
Total Del/Veh (s)	4.2	5.5	6.1	21.3	2.3	10.6	7.0
Stop Delay (hr)	0.4	0.6	0.0	1.3	0.0	0.6	2.8
Stop Del/Veh (s)	1.9	2.2	0.0	19.1	0.0	9.6	3.3

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.2	2.5	3.3	0.1	0.2	1.6	0.2	1.8
Total Delay (hr)	27.0	8.7	0.5	2.9	9.0	0.1	2.6	3.3	0.1	1.2	2.8	3.3
Total Del/Veh (s)	161.2	36.6	8.6	71.0	37.5	8.3	76.7	41.7	6.4	68.6	40.8	13.8
Stop Delay (hr)	25.4	7.0	0.3	2.7	7.2	0.1	2.4	2.7	0.1	1.2	2.4	0.8
Stop Del/Veh (s)	151.4	29.5	5.0	66.0	30.2	5.0	72.0	34.7	5.9	65.4	35.1	3.4

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.7
Total Delay (hr)	61.4
Total Del/Veh (s)	50.6
Stop Delay (hr)	52.3
Stop Del/Veh (s)	43.0

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.2	0.0	0.0	0.6	0.3	0.0	0.4	4.0	0.1	4.1
Total Delay (hr)	0.0	0.3	0.0	0.9	0.4	0.0	0.4	0.6	0.1	0.0	0.2	0.0
Total Del/Veh (s)	20.7	16.6	3.2	22.1	5.9	2.3	20.6	6.1	3.0	17.3	8.3	1.9
Stop Delay (hr)	0.0	0.2	0.0	0.8	0.2	0.0	0.4	0.3	0.1	0.0	0.1	0.0
Stop Del/Veh (s)	20.0	11.9	3.1	19.3	2.9	2.2	18.6	2.8	1.8	16.1	4.7	1.8

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	3.0
Total Del/Veh (s)	9.2
Stop Delay (hr)	2.1
Stop Del/Veh (s)	6.4

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.4	0.5
Denied Del/Veh (s)	0.0	0.0	1.3	3.1	0.9
Total Delay (hr)	0.3	2.7	0.7	0.4	4.1
Total Del/Veh (s)	4.6	9.7	13.9	2.6	7.6
Stop Delay (hr)	0.1	0.9	0.6	0.0	1.6
Stop Del/Veh (s)	1.9	3.3	10.8	0.0	3.0

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.8	3.2	1.0
Total Delay (hr)	0.2	1.0	0.3	0.5	2.0
Total Del/Veh (s)	6.0	7.5	8.4	5.6	6.8
Stop Delay (hr)	0.1	0.5	0.2	0.3	1.1
Stop Del/Veh (s)	2.7	3.5	6.0	3.6	3.7

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	2.9	0.2	0.3	0.2	0.3
Total Delay (hr)	1.7	0.7	1.0	2.0	2.7	0.2	8.1
Total Del/Veh (s)	15.4	6.3	37.1	10.6	20.9	4.2	13.8
Stop Delay (hr)	1.0	0.3	0.9	0.9	1.9	0.1	5.1
Stop Del/Veh (s)	9.3	2.8	33.7	5.0	14.8	3.3	8.7

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.0	0.4
Denied Del/Veh (s)	3.3	0.8	0.0	0.0	1.7	0.4	0.8
Total Delay (hr)	1.2	0.1	0.9	0.7	0.4	0.8	4.0
Total Del/Veh (s)	13.4	4.1	5.3	7.2	23.2	9.4	8.5
Stop Delay (hr)	0.9	0.1	0.4	0.2	0.4	0.4	2.4
Stop Del/Veh (s)	10.5	3.4	2.6	2.7	20.0	4.2	5.1

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	4.0	0.6	3.5	3.6	0.3	0.2	3.5	0.2	3.7	0.0	0.0	0.0
Total Delay (hr)	0.0	1.3	0.2	0.6	0.3	0.1	0.5	1.2	0.1	3.0	2.0	0.0
Total Del/Veh (s)	33.5	17.7	6.0	32.9	11.3	3.2	27.0	19.1	4.3	58.9	19.6	5.4
Stop Delay (hr)	0.0	0.9	0.2	0.6	0.2	0.1	0.5	0.8	0.1	2.5	1.1	0.0
Stop Del/Veh (s)	30.8	12.6	4.7	30.4	7.3	2.6	23.9	13.5	2.8	49.6	10.5	3.9

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.9
Total Delay (hr)	9.4
Total Del/Veh (s)	21.0
Stop Delay (hr)	7.0
Stop Del/Veh (s)	15.5

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	WBT	NBL	NBT	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.6	2.3	3.9	0.6	1.3	4.6	5.0	3.2	2.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.8	2.0	1.5	0.1	0.0	0.1	0.2	0.1	0.8

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	WBT	WBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.1	0.1	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.8	7.7	2.0	5.1	4.6	3.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.9	2.4	1.8	2.4	0.3	1.9

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.2	0.0	0.1	0.1	0.0	0.1	0.4
Total Del/Veh (s)	5.8	3.5	6.1	4.8	2.5	2.8	7.9	3.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.9	0.4	0.4	1.0	1.7	1.7	1.9	0.9

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.4	1.3	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.2
Total Del/Veh (s)	2.1	3.2	1.1	0.3	0.3	0.9
Stop Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	2.5	1.5	0.3	0.1	0.1	0.3

22: Metro Air Parkway & Meister Way Performance by movement

Movement	WBL	NBL	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.1	0.3	0.0	0.1	0.0	0.1
Total Delay (hr)	0.1	0.0	0.1	0.0	0.1	0.3
Total Del/Veh (s)	12.6	1.5	0.7	0.4	1.4	1.2
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	11.4	0.6	0.0	0.0	0.4	0.4

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBL	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.5	0.0	0.5	4.2	0.1
Total Delay (hr)	0.1	0.2	0.5	0.0	0.0	0.8
Total Del/Veh (s)	2.8	9.5	4.1	2.8	10.9	4.4
Stop Delay (hr)	0.0	0.1	0.1	0.0	0.0	0.2
Stop Del/Veh (s)	1.0	5.8	0.5	0.2	9.2	1.2

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.8	0.0	0.0	0.4	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3
Total Del/Veh (s)	3.6	2.1	1.2	1.4	1.1	0.2	6.9	1.7	7.0	3.2	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.5	0.5	0.3	0.4	0.0	0.0	5.4	2.1	5.3	3.1	0.4

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.4	0.0	0.0	0.0	4.1	0.4
Total Delay (hr)	0.2	0.1	0.7	0.1	0.3	1.3
Total Del/Veh (s)	14.6	3.1	4.9	1.9	13.1	5.3
Stop Delay (hr)	0.1	0.0	0.3	0.1	0.2	0.7
Stop Del/Veh (s)	12.5	0.8	1.8	1.3	11.6	2.9

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.6	0.0	1.2	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.2	0.0	0.2	0.7	0.1	0.1	1.3
Total Del/Veh (s)	13.2	4.5	1.0	11.4	3.9	12.4	3.6	4.6
Stop Delay (hr)	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.6
Stop Del/Veh (s)	13.1	1.9	1.0	9.9	1.3	11.1	3.6	2.3

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.3	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.4	0.0	0.5
Total Del/Veh (s)	2.0	1.3	1.9	2.2	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.2	0.1	2.4	0.2

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.0	3.8	0.1	0.1
Total Delay (hr)	0.0	0.5	0.0	0.4	0.7	0.1	0.1	1.9
Total Del/Veh (s)	18.3	7.0	1.6	11.5	3.6	20.0	4.1	5.4
Stop Delay (hr)	0.0	0.2	0.0	0.4	0.2	0.0	0.1	1.0
Stop Del/Veh (s)	18.1	3.1	1.7	9.2	0.9	18.5	4.1	2.8

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.8	0.0	0.1	0.2	0.2
Total Delay (hr)	0.0	0.1	0.0	0.1	0.1	0.0	0.3
Total Del/Veh (s)	4.3	3.1	3.3	7.7	8.0	2.3	5.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.6	2.6	2.0	2.2	2.4	1.9	2.3

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	3.8	0.3	0.9	0.0	0.1	0.0	0.3
Total Delay (hr)	0.0	0.3	0.1	0.0	0.0	0.0	0.5
Total Del/Veh (s)	6.2	4.7	2.4	0.4	1.0	0.1	2.7
Stop Delay (hr)	0.0	0.2	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	4.5	3.5	0.9	0.0	0.0	0.0	1.6

39: Performance by movement

Movement	EBT	EBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.2
Total Delay (hr)	0.0	2.4	2.4
Total Del/Veh (s)	1.3	11.9	11.5
Stop Delay (hr)	0.0	1.9	1.9
Stop Del/Veh (s)	0.2	9.5	9.2

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	4.9	4.9
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.1	1.1

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.5	0.1	0.0	0.6
Total Del/Veh (s)	1.4	0.4	0.3	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.1	0.0	0.4	0.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.2	0.3
Total Del/Veh (s)	0.7	1.1	1.3	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	0.3	7.7	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	4.0	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.7	0.1	1.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1
Total Del/Veh (s)	0.8	0.5	0.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.5	0.3

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	3.5	3.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.8	0.8

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	55.8	55.8
Denied Del/Veh (s)	0.0	0.0	0.0	347.8	107.4
Total Delay (hr)	0.3	0.2	0.8	15.1	16.4
Total Del/Veh (s)	2.9	1.7	4.7	110.0	32.9
Stop Delay (hr)	0.0	0.0	0.0	16.4	16.5
Stop Del/Veh (s)	0.3	0.1	0.2	119.2	33.0

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	0.6	0.4	1.7
Total Del/Veh (s)	3.4	4.7	1.3	2.6
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.2	0.1	0.2

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.5	0.2	0.9	1.6
Total Del/Veh (s)	2.5	2.4	1.8	2.0
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.9	1.1	0.4	2.4
Total Del/Veh (s)	2.0	2.7	4.4	2.5
Stop Delay (hr)	0.1	0.1	0.0	0.2
Stop Del/Veh (s)	0.3	0.2	0.4	0.2

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	3.1	4.7	7.8
Total Del/Veh (s)	6.8	9.3	8.1
Stop Delay (hr)	2.2	0.9	3.1
Stop Del/Veh (s)	4.9	1.9	3.3

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.1	0.6
Total Del/Veh (s)	1.8	0.9	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.2	1.2
Total Del/Veh (s)	4.6	4.6
Stop Delay (hr)	0.5	0.5
Stop Del/Veh (s)	1.9	1.9

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.0	1.0
Total Del/Veh (s)	8.5	8.5
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	2.6	2.6

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	1.9	0.2	2.8
Total Del/Veh (s)	3.5	6.8	5.6	5.4
Stop Delay (hr)	0.2	0.1	0.0	0.3
Stop Del/Veh (s)	0.9	0.3	0.8	0.5

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.9	0.9
Total Del/Veh (s)	0.6	0.2	2.7	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.1

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.2	0.3	0.6
Total Del/Veh (s)	1.2	1.6	1.5	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.5	0.8
Total Del/Veh (s)	2.8	2.5	2.3	2.4
Stop Delay (hr)	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.4	0.3	0.3	0.3

Total Network Performance

Denied Delay (hr)	60.4
Denied Del/Veh (s)	15.6
Total Delay (hr)	199.8
Total Del/Veh (s)	49.9
Stop Delay (hr)	135.5
Stop Del/Veh (s)	33.8

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	27
Average Queue (ft)	4
95th Queue (ft)	19
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	71
Average Queue (ft)	34
95th Queue (ft)	59
Link Distance (ft)	104
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	NB	NB	SB	SB
Directions Served	LT	R	L	T	T	R
Maximum Queue (ft)	49	194	72	126	124	86
Average Queue (ft)	9	86	25	43	43	28
95th Queue (ft)	32	143	57	101	94	66
Link Distance (ft)	1571			857	658	658
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		170	100			
Storage Blk Time (%)		0	0	1		
Queuing Penalty (veh)		0	0	0		

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	142	84	35	116
Average Queue (ft)	58	28	2	47
95th Queue (ft)	113	71	18	88
Link Distance (ft)	182	477	857	
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				130
Storage Blk Time (%)				0
Queuing Penalty (veh)				0

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	16	55
Average Queue (ft)	1	12
95th Queue (ft)	6	36
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	56	19
Average Queue (ft)	26	1
95th Queue (ft)	48	9
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	L	T	T
Maximum Queue (ft)	49	226	295	230	169	184	222	400	48	293	66	49
Average Queue (ft)	9	126	171	54	89	102	74	204	17	162	27	4
95th Queue (ft)	32	194	249	148	147	157	163	339	43	259	59	24
Link Distance (ft)		289	289				882	882			4516	4516
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	1									
Storage Bay Dist (ft)	195			140	205	205			590	280		
Storage Blk Time (%)		1	16	0	0	0	0			1		
Queuing Penalty (veh)		0	26	0	0	1	0			0		

Intersection: 7: El Centro Road & Del Paso Road

Movement	SB	SB	SB	SB	SB
Directions Served	L	L	T	T	R
Maximum Queue (ft)	159	191	81	75	21
Average Queue (ft)	66	96	25	24	4
95th Queue (ft)	137	163	60	56	14
Link Distance (ft)			404	404	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	285	285		130	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	T	T	R	L	T	R	L	TR	L	LT	R
Maximum Queue (ft)	35	27	25	20	47	61	132	28	140	132	170	19
Average Queue (ft)	10	9	2	2	19	17	60	7	49	25	82	4
95th Queue (ft)	30	28	14	12	47	48	100	24	96	79	140	16
Link Distance (ft)		1136	1136			3005	3005		546		1094	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	180			140	250			150		135		135
Storage Blk Time (%)									0	0	1	
Queuing Penalty (veh)									0	0	2	

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	239	229	117	165	212	224	378	407	420	362
Average Queue (ft)	109	119	42	65	100	66	146	164	157	96
95th Queue (ft)	195	202	94	131	181	159	292	314	317	258
Link Distance (ft)	175	175	214	214	214		2313	2313		
Upstream Blk Time (%)	1	1		0	0					
Queuing Penalty (veh)	5	5		0	1					
Storage Bay Dist (ft)						135		450	450	
Storage Blk Time (%)						2	15	0	0	0
Queuing Penalty (veh)						4	24	2	1	0

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	151	172	145	210	98	114	141
Average Queue (ft)	48	61	59	88	48	66	71
95th Queue (ft)	114	133	122	170	89	105	118
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)	0	0					
Queuing Penalty (veh)	0	0					
Storage Bay Dist (ft)					200	200	
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	337	444	494	689	615	575	220	155	185	261	287	324
Average Queue (ft)	211	309	336	358	280	225	63	43	103	145	168	171
95th Queue (ft)	352	476	535	745	600	479	165	130	172	237	269	280
Link Distance (ft)				686	686	686				916	916	916
Upstream Blk Time (%)				11	2	0						
Queuing Penalty (veh)				62	11	2						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	0	10	19	17		6	0		0	0		20
Queuing Penalty (veh)	0	28	52	102		13	0		1	0		13

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	176	201	205	183	142	53	75	94	152	137	256
Average Queue (ft)	41	33	84	86	71	19	16	16	37	72	50	32
95th Queue (ft)	146	104	160	171	156	90	40	49	75	125	108	172
Link Distance (ft)				1093	1093	1093	1093			2179	2179	2179
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)		0	0									
Queuing Penalty (veh)		0	0									

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	348
Average Queue (ft)	165
95th Queue (ft)	325
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	1
Queuing Penalty (veh)	1

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	T	T	R
Maximum Queue (ft)	27	60	61	53	184	98	58	31	102	96	95	97
Average Queue (ft)	3	14	17	12	75	28	19	3	41	34	33	31
95th Queue (ft)	16	43	47	36	144	72	46	18	84	81	68	68
Link Distance (ft)		2972	2972			619	619			1249	1249	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	350			250	350			250	400			250
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	SB	SB	SB	SB
Directions Served	L	T	T	R
Maximum Queue (ft)	58	64	48	52
Average Queue (ft)	8	22	5	12
95th Queue (ft)	32	56	26	39
Link Distance (ft)		724	724	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	400			250
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	72	81	148	189	134	44
Average Queue (ft)	22	28	55	99	63	3
95th Queue (ft)	56	64	115	167	112	23
Link Distance (ft)	281	281	370	370	1196	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)						420
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	58	69	122	104	109	132
Average Queue (ft)	13	22	55	46	44	63
95th Queue (ft)	41	55	100	89	86	109
Link Distance (ft)	349	349	158	158	1209	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					400	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	T	L	R
Maximum Queue (ft)	126	138	101	150	190	187	271	104
Average Queue (ft)	59	69	60	65	70	82	157	27
95th Queue (ft)	102	113	89	125	131	141	244	67
Link Distance (ft)	1361	1361			1391	1391	1907	1907
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			250	200				
Storage Blk Time (%)				0	0			
Queuing Penalty (veh)				0	0			

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	SB	SB
Directions Served	L	R	T	T	R	L	T
Maximum Queue (ft)	174	64	98	104	141	78	157
Average Queue (ft)	90	26	38	46	59	38	63
95th Queue (ft)	145	49	81	94	108	71	123
Link Distance (ft)		1114	1807	1807	1807		2762
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	275					190	
Storage Blk Time (%)							0
Queuing Penalty (veh)							0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	26	184	90	106	77	73	96	124	96	56	236	266
Average Queue (ft)	4	88	31	44	33	24	39	56	41	23	111	102
95th Queue (ft)	18	154	62	89	65	51	76	98	77	47	200	210
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		1					0	1	0		2	1
Queuing Penalty (veh)		2					0	1	0		6	2

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	18
Average Queue (ft)	1
95th Queue (ft)	10
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	WB	NB
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	70	30	24
Average Queue (ft)	28	4	1
95th Queue (ft)	53	21	13
Link Distance (ft)	948	1380	2214
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	28	47	43
Average Queue (ft)	6	25	13
95th Queue (ft)	24	44	39
Link Distance (ft)	1597	1351	477
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	L	TR	LT
Maximum Queue (ft)	26	76	56
Average Queue (ft)	2	38	20
95th Queue (ft)	14	64	47
Link Distance (ft)	2972	2362	1286
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	NB
Directions Served	R	L
Maximum Queue (ft)	27	18
Average Queue (ft)	5	1
95th Queue (ft)	21	7
Link Distance (ft)		
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	200
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 22: Metro Air Parkway & Meister Way

Movement	WB	NB
Directions Served	L	L
Maximum Queue (ft)	74	15
Average Queue (ft)	21	1
95th Queue (ft)	56	6
Link Distance (ft)		
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	200
Storage Blk Time (%)	0	
Queuing Penalty (veh)	0	

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	WB	WB	SB
Directions Served	T	T	L	T	T	R	L
Maximum Queue (ft)	61	42	70	78	80	8	25
Average Queue (ft)	7	6	27	7	5	0	5
95th Queue (ft)	34	25	54	37	35	4	20
Link Distance (ft)	785	785		1776	1776		
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)			200			250	100
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	L	TR	L	TR	L	TR
Maximum Queue (ft)	43	19	4	30	28	31	35
Average Queue (ft)	12	1	0	5	4	5	13
95th Queue (ft)	36	9	3	22	21	22	37
Link Distance (ft)			785	410	410	405	405
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	100	200					
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	SB	SB
Directions Served	L	T	T	T	T	R	L	T
Maximum Queue (ft)	86	39	33	124	111	95	103	30
Average Queue (ft)	25	4	4	35	33	22	41	1
95th Queue (ft)	64	22	21	89	87	61	79	21
Link Distance (ft)		1776	1776	457	457			244
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	200					250	100	
Storage Blk Time (%)							1	
Queuing Penalty (veh)							0	

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	40	76	69	37	47	75	138	169	63	63
Average Queue (ft)	3	20	17	3	3	33	31	42	16	26
95th Queue (ft)	20	58	51	18	20	65	89	121	45	56
Link Distance (ft)		566	566	566			707	707	842	842
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	200				150	250				
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	47
Average Queue (ft)	14
95th Queue (ft)	40
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	
Directions Served	U	T	T	R	L	L	T	T	L	R	R	
Maximum Queue (ft)	34	127	122	33	61	105	182	142	37	77	58	
Average Queue (ft)	5	30	35	3	12	50	28	32	7	25	19	
95th Queue (ft)	24	76	83	19	42	83	112	99	26	60	41	
Link Distance (ft)		972	972	972			970	970		840	840	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				430	430			150			
Storage Blk Time (%)							0					
Queuing Penalty (veh)							0					

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	53	47	48	50
Average Queue (ft)	30	24	21	28
95th Queue (ft)	50	43	46	46
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	EB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	TR
Maximum Queue (ft)	25	99	74	6	9	10
Average Queue (ft)	4	51	21	0	0	0
95th Queue (ft)	21	82	55	4	5	5
Link Distance (ft)		680		456	678	678
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	100		200			
Storage Blk Time (%)			0			
Queuing Penalty (veh)			0			

Intersection: 39:

Movement	EB
Directions Served	R
Maximum Queue (ft)	319
Average Queue (ft)	149
95th Queue (ft)	272
Link Distance (ft)	501
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	52	68
Average Queue (ft)	9	24
95th Queue (ft)	34	57
Link Distance (ft)	1038	1038
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	31
Average Queue (ft)	4
95th Queue (ft)	21
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement

EB

Directions Served T
 Maximum Queue (ft) 3
 Average Queue (ft) 0
 95th Queue (ft) 2
 Link Distance (ft) 862
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 402:

Movement

EB

EB

Directions Served T T
 Maximum Queue (ft) 39 74
 Average Queue (ft) 2 27
 95th Queue (ft) 18 60
 Link Distance (ft) 484 484
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	WB	WB	SB	SB
Directions Served	T	T	R	L	R
Maximum Queue (ft)	6	6	123	375	352
Average Queue (ft)	0	0	10	338	318
95th Queue (ft)	4	4	64	357	407
Link Distance (ft)	3005	289	289	316	316
Upstream Blk Time (%)				99	92
Queuing Penalty (veh)				0	0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1002: Del Paso Road

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	22	106
Average Queue (ft)	1	4
95th Queue (ft)	11	54
Link Distance (ft)	882	882
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1003: Del Paso Road

Movement	EB
Directions Served	TR
Maximum Queue (ft)	13
Average Queue (ft)	1
95th Queue (ft)	12
Link Distance (ft)	748
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB
Directions Served	T	T	T	TR
Maximum Queue (ft)	71	62	41	87
Average Queue (ft)	5	4	2	3
95th Queue (ft)	55	48	35	58
Link Distance (ft)	214	214	214	370
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	247	234	184	10	343	561	349
Average Queue (ft)	59	49	32	0	30	73	57
95th Queue (ft)	307	266	201	7	213	268	218
Link Distance (ft)	370	370	370	686	686	686	686
Upstream Blk Time (%)	4	1	1		0	0	0
Queuing Penalty (veh)	23	8	3		0	0	0
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	94	96
Average Queue (ft)	53	59
95th Queue (ft)	80	84
Link Distance (ft)	167	167
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	160
Average Queue (ft)	72
95th Queue (ft)	128
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	WB	WB
Directions Served	T	TR
Maximum Queue (ft)	59	105
Average Queue (ft)	2	31
95th Queue (ft)	27	74
Link Distance (ft)	1361	1361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 405

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	12509	12622	12574	12554	12630	12579
Vehs Exited	12499	12582	12588	12619	12644	12586
Starting Vehs	523	550	552	555	558	539
Ending Vehs	533	590	538	490	544	525
Travel Distance (mi)	13625	13759	13758	13680	13865	13737
Travel Time (hr)	527.8	569.6	565.6	541.0	556.9	552.2
Total Delay (hr)	163.0	202.3	197.6	175.1	185.7	184.7
Total Stops	15585	16030	16585	15836	16335	16078
Fuel Used (gal)	517.3	535.2	532.0	522.1	533.7	528.1

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	3	4	5	6	7	Avg
Vehs Entered	12509	12622	12574	12554	12630	12579
Vehs Exited	12499	12582	12588	12619	12644	12586
Starting Vehs	523	550	552	555	558	539
Ending Vehs	533	590	538	490	544	525
Travel Distance (mi)	13625	13759	13758	13680	13865	13737
Travel Time (hr)	527.8	569.6	565.6	541.0	556.9	552.2
Total Delay (hr)	163.0	202.3	197.6	175.1	185.7	184.7
Total Stops	15585	16030	16585	15836	16335	16078
Fuel Used (gal)	517.3	535.2	532.0	522.1	533.7	528.1

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.4	0.0	0.0	0.4
Denied Del/Veh (s)	0.9	2.6	0.0	0.0	1.0
Total Delay (hr)	0.0	0.2	0.0	0.1	0.3
Total Del/Veh (s)	14.4	1.1	0.1	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	12.8	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.4	2.4	1.6	0.8	0.6	2.6
Stop Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.0	2.6	0.0	0.0	0.0	2.1

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	0.9	0.9	2.6	0.0	0.0	0.0	0.0	1.3
Total Delay (hr)	0.0	0.0	0.7	0.0	0.1	0.7	0.2	1.7
Total Del/Veh (s)	7.8	9.8	5.7	17.6	6.1	8.7	4.5	6.6
Stop Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.8
Stop Del/Veh (s)	4.8	5.4	2.7	15.5	2.8	4.1	1.3	3.1

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
Total Delay (hr)	0.2	0.0	0.0	0.0	0.1	0.1	0.5	0.9
Total Del/Veh (s)	17.1	0.7	1.1	9.6	5.5	10.8	6.4	7.4
Stop Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4
Stop Del/Veh (s)	15.6	0.0	0.3	8.2	3.2	3.6	2.1	3.5

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	0.7	0.2	0.6	0.1	3.1	1.7	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0	1.9	1.6	0.8

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.7	0.8	1.7	0.5	0.2	1.0	0.5	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.7	0.0	1.4	0.0	0.0	0.1	0.0	0.3

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0
Total Delay (hr)	0.0	1.8	0.1	2.1	2.0	0.2	0.9	0.7	0.1	1.5	0.8	0.0
Total Del/Veh (s)	40.0	23.2	5.3	33.2	16.2	3.3	32.1	35.5	1.5	27.7	29.6	6.1
Stop Delay (hr)	0.0	1.4	0.1	1.9	1.4	0.1	0.8	0.6	0.0	1.4	0.7	0.0
Stop Del/Veh (s)	38.0	18.7	4.5	29.7	11.1	1.7	30.0	30.3	0.0	25.8	25.2	6.4

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	10.2
Total Del/Veh (s)	18.3
Stop Delay (hr)	8.4
Stop Del/Veh (s)	15.0

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.7	0.0	0.0	0.0	3.8	0.1	0.1	0.1
Total Delay (hr)	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.4
Total Del/Veh (s)	3.7	1.7	9.1	3.5	0.8	8.6	2.5	9.6	4.6
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	2.0	1.6	7.4	2.1	0.6	7.6	2.8	8.2	3.4

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	2.8	1.9	3.4	8.5	16.7
Total Del/Veh (s)	12.8	6.3	36.2	24.4	17.2
Stop Delay (hr)	2.0	0.8	2.9	6.0	11.7
Stop Del/Veh (s)	9.1	2.6	31.5	17.1	12.1

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.5	0.9	0.9	2.2	0.3	4.8
Total Del/Veh (s)	3.2	4.2	4.6	23.5	8.8	7.0
Stop Delay (hr)	0.2	0.3	0.0	2.0	0.3	2.8
Stop Del/Veh (s)	1.5	1.5	0.0	21.0	8.0	4.1

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	1.0	0.8	0.4	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	2.4	12.4	8.7	8.4	0.6	0.0	0.6
Total Delay (hr)	20.9	7.4	0.4	3.4	8.4	0.4	30.7	5.9	0.6	1.9	1.5	0.5
Total Del/Veh (s)	86.4	27.2	6.3	60.5	36.1	11.4	356.7	64.7	12.8	64.7	46.5	5.4
Stop Delay (hr)	18.4	5.7	0.2	3.1	6.7	0.2	29.5	4.7	0.5	1.8	1.3	0.2
Stop Del/Veh (s)	76.1	21.1	3.3	55.5	28.9	7.8	343.1	51.8	11.0	61.7	41.4	1.6

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	2.5
Denied Del/Veh (s)	2.0
Total Delay (hr)	82.0
Total Del/Veh (s)	63.8
Stop Delay (hr)	72.5
Stop Del/Veh (s)	56.5

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.8	0.2	3.0	0.0	0.0	0.2	0.0	0.0	0.0	3.9	0.1	3.5
Total Delay (hr)	0.1	0.5	0.3	0.5	0.7	0.0	1.5	0.3	0.0	0.1	0.6	0.0
Total Del/Veh (s)	23.6	17.6	4.6	25.2	12.8	3.2	20.4	6.4	1.8	26.8	18.0	2.9
Stop Delay (hr)	0.1	0.3	0.2	0.5	0.5	0.0	1.2	0.2	0.0	0.1	0.4	0.0
Stop Del/Veh (s)	22.1	11.8	2.8	23.3	8.0	2.9	16.4	3.4	1.2	24.2	12.4	2.9

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.6
Total Delay (hr)	4.6
Total Del/Veh (s)	13.8
Stop Delay (hr)	3.4
Stop Del/Veh (s)	10.1

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.7	0.8
Denied Del/Veh (s)	0.0	0.0	1.7	3.1	1.5
Total Delay (hr)	0.5	1.5	0.6	1.0	3.6
Total Del/Veh (s)	5.5	10.3	10.3	4.7	7.0
Stop Delay (hr)	0.2	0.6	0.4	0.1	1.3
Stop Del/Veh (s)	2.3	4.5	7.1	0.3	2.6

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	3.4	0.3
Total Delay (hr)	0.2	0.4	0.2	0.1	0.9
Total Del/Veh (s)	3.6	3.4	8.6	3.5	4.1
Stop Delay (hr)	0.1	0.1	0.2	0.1	0.4
Stop Del/Veh (s)	1.1	1.1	6.5	2.9	1.9

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	3.1	0.2	0.2	0.1	0.2
Total Delay (hr)	2.5	0.8	0.6	0.6	1.0	0.1	5.6
Total Del/Veh (s)	11.6	7.0	27.2	5.1	19.5	5.7	10.4
Stop Delay (hr)	1.0	0.2	0.6	0.2	0.9	0.1	3.0
Stop Del/Veh (s)	4.7	2.0	24.7	2.0	16.1	5.1	5.5

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	3.5	0.5	0.0	0.0	1.7	0.3	0.4
Total Delay (hr)	0.7	0.0	1.0	0.8	0.2	0.6	3.4
Total Del/Veh (s)	13.7	4.1	4.2	7.5	20.3	6.6	6.6
Stop Delay (hr)	0.6	0.0	0.4	0.3	0.2	0.2	1.6
Stop Del/Veh (s)	11.3	3.7	1.5	2.4	17.4	2.4	3.2

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	4.0	0.3	3.7	3.5	0.4	0.2	3.4	0.2	3.4	0.0	0.0	0.0
Total Delay (hr)	0.1	0.7	0.1	0.7	0.7	0.1	0.7	1.1	0.1	0.7	1.1	0.0
Total Del/Veh (s)	31.1	17.1	4.6	27.5	12.1	3.3	25.6	17.2	4.5	28.2	13.3	4.2
Stop Delay (hr)	0.1	0.5	0.0	0.6	0.5	0.1	0.6	0.7	0.1	0.6	0.7	0.0
Stop Del/Veh (s)	29.1	12.6	3.9	24.6	7.4	2.6	22.4	11.8	2.6	23.6	8.4	3.8

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	1.0
Total Delay (hr)	6.1
Total Del/Veh (s)	15.0
Stop Delay (hr)	4.5
Stop Del/Veh (s)	11.1

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBT	EBR	WBT	NBL	NBT	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay (hr)	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Total Del/Veh (s)	6.5	9.8	4.8	0.0	0.6	0.3	3.4	4.1	3.2	5.1
Stop Delay (hr)	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.7	2.9	2.6	0.0	0.1	0.0	0.4	0.3	0.3	1.9

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.2	0.1	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.3
Total Del/Veh (s)	3.5	7.1	7.8	1.5	6.2	3.2	5.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.1	2.3	2.5	1.7	2.5	0.3	2.1

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.3	0.0	0.1	0.0	0.1	0.6
Total Del/Veh (s)	5.0	2.7	5.5	9.7	2.6	8.3	3.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.9	0.2	0.1	2.4	1.8	2.0	0.8

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.1	4.3	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.2
Total Del/Veh (s)	10.2	2.1	2.6	0.7	0.4	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	9.2	2.5	1.8	0.3	0.0	0.3

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBR	WBL	NBL	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.2	4.1	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.1	0.0	0.1	0.0	0.2	0.3
Total Del/Veh (s)	2.9	10.7	2.1	0.5	0.1	1.8	1.3
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.2	9.6	1.6	0.0	0.0	0.4	0.4

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBL	WBT	WBR	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	4.1	4.1	0.4
Total Delay (hr)	0.3	0.0	0.4	0.0	0.0	0.0	0.7
Total Del/Veh (s)	3.3	9.2	5.1	3.2	1.8	8.8	4.1
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	1.2	6.8	1.2	0.4	2.1	7.2	1.4

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4
Total Del/Veh (s)	3.7	3.3	2.0	1.3	1.4	1.0	5.0	2.4	6.3	2.8	2.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Stop Del/Veh (s)	1.3	0.3	0.3	0.2	0.1	0.1	3.6	2.3	4.4	2.7	1.0

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.3	0.0	0.3
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	3.7	3.6	1.1
Total Delay (hr)	0.1	0.6	0.4	0.0	0.8	0.0	2.0
Total Del/Veh (s)	16.4	6.8	5.9	1.9	11.5	3.1	7.5
Stop Delay (hr)	0.1	0.2	0.2	0.0	0.7	0.0	1.2
Stop Del/Veh (s)	14.2	2.2	2.5	1.6	9.6	2.9	4.4

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.7	0.0	0.2	0.2	0.0	0.0	1.1
Total Del/Veh (s)	13.9	4.4	0.9	11.3	2.3	10.7	3.6	4.1
Stop Delay (hr)	0.0	0.3	0.0	0.2	0.1	0.0	0.0	0.6
Stop Del/Veh (s)	13.7	1.7	0.8	10.1	0.9	9.5	3.6	2.1

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.3	0.0	0.0	0.1	0.0	0.5
Total Del/Veh (s)	2.0	1.0	3.6	1.4	2.2	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.1	2.7	0.1	2.4	0.2

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.0	3.4	0.1	0.1
Total Delay (hr)	0.0	1.2	0.0	0.5	0.3	0.0	0.2	2.1
Total Del/Veh (s)	13.7	6.9	1.5	13.2	2.6	17.2	6.1	6.2
Stop Delay (hr)	0.0	0.4	0.0	0.4	0.1	0.0	0.2	1.1
Stop Del/Veh (s)	13.4	2.2	1.7	11.4	0.7	15.7	6.0	3.1

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.0	0.0	0.2	0.1	0.1
Total Delay (hr)	0.0	0.1	0.1	0.1	0.2	0.0	0.4
Total Del/Veh (s)	4.6	3.2	3.7	4.5	8.3	2.1	4.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.9	2.6	2.0	1.2	2.3	1.7	2.0

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	3.3	2.0	0.3	0.5	0.0	1.4
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.7	0.6	0.0	0.0	0.0	0.7

74: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	3.6	3.6
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.2	1.2

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	4.6	4.6
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.9	0.9

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.2	0.1
Total Delay (hr)	0.2	0.1	0.0	0.3
Total Del/Veh (s)	1.1	0.4	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.0	0.1	0.6	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.4	0.4
Total Del/Veh (s)	0.5	1.6	1.7	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	0.4	7.6	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	3.7	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.7	0.1	1.7
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.5	0.4	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	4.0	4.0
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	0.9	0.9

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.0	0.1	0.6	0.4	1.0
Total Del/Veh (s)	0.3	1.9	5.1	6.8	4.1
Stop Delay (hr)	0.0	0.0	0.0	0.3	0.3
Stop Del/Veh (s)	0.0	0.2	0.1	4.8	1.1

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.4	0.2	0.3	0.8
Total Del/Veh (s)	2.4	2.6	1.2	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.1	0.1	0.1

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.5	0.1	0.7	1.2
Total Del/Veh (s)	2.2	1.9	1.7	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.2	0.6	0.4	2.3
Total Del/Veh (s)	2.2	2.1	3.9	2.3
Stop Delay (hr)	0.3	0.0	0.0	0.3
Stop Del/Veh (s)	0.5	0.1	0.2	0.3

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	2.4	3.2	5.6
Total Del/Veh (s)	4.3	7.7	5.8
Stop Delay (hr)	1.4	0.8	2.2
Stop Del/Veh (s)	2.5	1.9	2.2

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	0.1	0.5
Total Del/Veh (s)	1.8	1.0	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	3.9	3.9
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.6	1.6

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	3.9	3.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.2	0.6	0.1	1.9
Total Del/Veh (s)	3.7	4.2	2.7	3.8
Stop Delay (hr)	0.4	0.0	0.0	0.5
Stop Del/Veh (s)	1.4	0.2	0.6	1.0

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.4	0.4
Total Del/Veh (s)	0.7	0.2	1.9	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.2	0.1

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.0	0.2
Total Del/Veh (s)	1.0	0.9	0.6	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.2	0.5	0.2	0.9
Total Del/Veh (s)	2.5	3.7	1.6	2.6
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.2	0.2	0.2

Total Network Performance

Denied Delay (hr)	6.0
Denied Del/Veh (s)	1.7
Total Delay (hr)	178.7
Total Del/Veh (s)	49.1
Stop Delay (hr)	122.1
Stop Del/Veh (s)	33.5

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	27
Average Queue (ft)	4
95th Queue (ft)	20
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	70
Average Queue (ft)	32
95th Queue (ft)	56
Link Distance (ft)	104
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	NB	NB	SB	SB
Directions Served	LT	R	L	T	T	R
Maximum Queue (ft)	33	128	26	54	159	64
Average Queue (ft)	6	67	3	12	64	29
95th Queue (ft)	22	104	17	41	121	57
Link Distance (ft)	1571			865	657	657
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		170	100			
Storage Blk Time (%)		0				
Queuing Penalty (veh)		0				

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	61	60	60	111
Average Queue (ft)	20	16	17	51
95th Queue (ft)	50	47	49	88
Link Distance (ft)	182	476	865	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				130
Storage Blk Time (%)				0
Queuing Penalty (veh)				0

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	15	46
Average Queue (ft)	1	19
95th Queue (ft)	6	38
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	40	25
Average Queue (ft)	20	3
95th Queue (ft)	39	17
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	29	109	132	49	124	128	131	261	105	24	125	79
Average Queue (ft)	3	51	63	20	59	75	39	116	38	1	54	35
95th Queue (ft)	18	94	113	39	107	118	93	212	79	10	100	70
Link Distance (ft)		978	978				883	883				425
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)	0											
Queuing Penalty (veh)	0											

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	SB	SB	SB	SB	SB
Directions Served	T	L	L	T	T	R
Maximum Queue (ft)	53	95	116	74	62	17
Average Queue (ft)	5	38	62	29	20	2
95th Queue (ft)	28	80	105	61	49	10
Link Distance (ft)	425			405	405	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		285	285			130
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	T	T	R	L	T	R	L	TR	L	LT
Maximum Queue (ft)	44	30	27	65	55	28	23	28	10	31
Average Queue (ft)	12	5	3	29	8	4	3	10	0	11
95th Queue (ft)	36	23	14	56	32	19	15	25	6	29
Link Distance (ft)	1136	1136			1460	1460		546		1094
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)			140	250			150		135	
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	B76	B76
Directions Served	T	T	T	T	T	L	L	R	R	R	T	T
Maximum Queue (ft)	183	181	114	172	180	211	359	438	406	368	8	14
Average Queue (ft)	94	95	46	69	86	64	140	192	187	134	0	0
95th Queue (ft)	156	160	93	142	154	151	292	380	358	308	4	6
Link Distance (ft)	177	177	213	213	213		1298	1298			977	977
Upstream Blk Time (%)	0	0			0							
Queuing Penalty (veh)	1	1			0							
Storage Bay Dist (ft)						135			450	450		
Storage Blk Time (%)						1	11	1	0	0		
Queuing Penalty (veh)						2	18	5	2	0		

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	85	98	111	185	130	141	91
Average Queue (ft)	32	38	34	68	66	85	42
95th Queue (ft)	75	79	82	140	111	123	77
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					200	200	
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	333	454	494	708	623	586	256	159	205	222	270	317
Average Queue (ft)	195	312	331	312	227	197	54	63	121	129	161	176
95th Queue (ft)	311	469	507	662	500	420	147	150	181	207	240	279
Link Distance (ft)				685	685	685				916	916	916
Upstream Blk Time (%)				5	1	0						
Queuing Penalty (veh)				35	4	0						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	1	5	12	9		7			0	0		18
Queuing Penalty (veh)	3	16	36	76		14			0	0		20

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	289	331	890	849	346	121	108	126	92	76	50
Average Queue (ft)	56	260	309	657	509	55	47	35	55	36	27	10
95th Queue (ft)	171	362	396	1238	1076	214	99	82	100	72	59	35
Link Distance (ft)				1093	1093	1093	1093			904	904	904
Upstream Blk Time (%)				13	0							
Queuing Penalty (veh)				0	0							
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)		17	76	1								
Queuing Penalty (veh)		19	83	4								

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	189
Average Queue (ft)	50
95th Queue (ft)	150
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	T	T	R
Maximum Queue (ft)	26	54	58	57	107	95	77	37	200	80	66	26
Average Queue (ft)	5	20	11	23	41	30	31	9	101	10	29	3
95th Queue (ft)	18	46	35	46	82	66	61	28	164	43	62	15
Link Distance (ft)		2971	2971			613	613			1253	1253	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	350			250	350			250	400			250
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	SB	SB	SB	SB
Directions Served	L	T	T	R
Maximum Queue (ft)	62	90	43	22
Average Queue (ft)	16	40	10	2
95th Queue (ft)	46	72	32	13
Link Distance (ft)		724	724	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	400			250
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	73	80	112	126	109	183
Average Queue (ft)	32	32	35	54	53	37
95th Queue (ft)	61	65	77	102	85	125
Link Distance (ft)	281	281	185	185	1196	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)						420
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	38	76	74	62	93	62
Average Queue (ft)	11	21	28	20	38	26
95th Queue (ft)	34	56	63	53	72	51
Link Distance (ft)	349	349	162	162	1209	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					400	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	T	L	R
Maximum Queue (ft)	153	159	98	96	83	99	142	70
Average Queue (ft)	72	83	54	49	34	36	73	22
95th Queue (ft)	120	131	85	85	70	77	126	49
Link Distance (ft)	1361	1361			1391	1391	1907	1907
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			250	200				
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	SB	SB
Directions Served	L	R	T	T	R	T	L	T
Maximum Queue (ft)	124	40	110	127	143	5	60	125
Average Queue (ft)	60	10	34	54	63	0	27	48
95th Queue (ft)	103	30	83	101	118	4	55	98
Link Distance (ft)		1114	1805	1805	1805	1247		2762
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	275						190	
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	31	112	30	92	144	54	112	99	93	57	97	158
Average Queue (ft)	7	53	14	49	58	24	52	45	44	30	44	69
95th Queue (ft)	26	96	30	87	118	47	90	82	81	52	81	133
Link Distance (ft)		983			1124	1124		1367	1367			4034
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		0			0		1	0				0
Queuing Penalty (veh)		0			0		1	0				0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	21
Average Queue (ft)	3
95th Queue (ft)	14
Link Distance (ft)	4034
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	NB	SB
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	92	14	10
Average Queue (ft)	49	0	0
95th Queue (ft)	79	6	5
Link Distance (ft)	948	2214	2363
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	50	35	56
Average Queue (ft)	30	12	27
95th Queue (ft)	44	35	46
Link Distance (ft)	1605	1351	476
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	L	TR	LT
Maximum Queue (ft)	64	68	52
Average Queue (ft)	21	31	23
95th Queue (ft)	42	51	47
Link Distance (ft)	2971	2363	1287
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	NB
Directions Served	L	R	L
Maximum Queue (ft)	34	28	21
Average Queue (ft)	5	5	2
95th Queue (ft)	22	23	10
Link Distance (ft)			
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100	100	200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	WB	NB
Directions Served	R	L	L
Maximum Queue (ft)	28	50	20
Average Queue (ft)	7	14	2
95th Queue (ft)	25	41	11
Link Distance (ft)			
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100	100	200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	WB	WB	NB	SB
Directions Served	T	T	L	T	T	R	R	L
Maximum Queue (ft)	56	58	25	61	52	13	30	31
Average Queue (ft)	12	8	3	11	13	0	13	8
95th Queue (ft)	37	31	17	39	39	6	27	28
Link Distance (ft)	782	782		1784	1784			
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			200		250	100	100	
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	WB	NB	NB	SB	SB
Directions Served	L	L	L	TR	L	TR
Maximum Queue (ft)	29	10	31	44	60	31
Average Queue (ft)	4	1	15	21	31	9
95th Queue (ft)	20	7	39	43	53	31
Link Distance (ft)			412	412	290	290
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	100	200				
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	L	T	T	T	T	R	L	T	R
Maximum Queue (ft)	42	60	72	62	52	52	118	52	39
Average Queue (ft)	12	16	28	20	16	13	69	5	11
95th Queue (ft)	33	42	58	46	40	33	110	63	31
Link Distance (ft)		1784	1784	457	457			244	
Upstream Blk Time (%)								0	
Queuing Penalty (veh)								0	
Storage Bay Dist (ft)	200					250	100		100
Storage Blk Time (%)							2		
Queuing Penalty (veh)							1		

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	29	103	107	49	30	65	51	83	24	58
Average Queue (ft)	4	28	32	5	2	28	9	15	2	18
95th Queue (ft)	19	78	79	28	15	54	33	54	13	40
Link Distance (ft)		566	566	566			707	707	842	842
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	200				150	250				
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	WB	NB
Directions Served	LT	R
Maximum Queue (ft)	57	27
Average Queue (ft)	7	8
95th Queue (ft)	32	26
Link Distance (ft)	972	595
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	
Directions Served	U	T	T	R	L	L	T	T	L	R	R	
Maximum Queue (ft)	30	86	149	15	52	70	78	64	25	54	52	
Average Queue (ft)	5	36	56	2	13	40	13	12	3	19	22	
95th Queue (ft)	21	74	110	11	40	68	46	42	15	42	44	
Link Distance (ft)		972	972	972			970	970		840	840	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200					430	430					150
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	63	57	40	53
Average Queue (ft)	30	25	21	28
95th Queue (ft)	54	47	44	45
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	NB
Directions Served	R	L
Maximum Queue (ft)	60	64
Average Queue (ft)	33	17
95th Queue (ft)	51	47
Link Distance (ft)	680	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		200
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	T
Maximum Queue (ft)	97
Average Queue (ft)	46
95th Queue (ft)	80
Link Distance (ft)	515
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	32	54
Average Queue (ft)	2	19
95th Queue (ft)	16	46
Link Distance (ft)	990	990
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	31
Average Queue (ft)	2
95th Queue (ft)	15
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	33	71
Average Queue (ft)	5	31
95th Queue (ft)	24	56
Link Distance (ft)	485	485
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	WB	WB	WB	SB
Directions Served	T	T	R	L
Maximum Queue (ft)	6	6	29	102
Average Queue (ft)	0	0	1	45
95th Queue (ft)	4	4	13	79
Link Distance (ft)	978	978	978	316
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1002: Del Paso Road

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1003: Del Paso Road

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB
Directions Served	T	T	T	T
Maximum Queue (ft)	50	49	44	8
Average Queue (ft)	7	7	4	0
95th Queue (ft)	70	68	48	6
Link Distance (ft)	213	213	213	370
Upstream Blk Time (%)	1	0	0	
Queuing Penalty (veh)	4	2	0	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	T
Maximum Queue (ft)	208	170	110	171	209	89
Average Queue (ft)	36	24	19	6	27	20
95th Queue (ft)	234	184	161	94	125	68
Link Distance (ft)	370	370	370	685	685	685
Upstream Blk Time (%)	4	1	1			
Queuing Penalty (veh)	24	8	4			
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1006: I-5 Southbound Ramps

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	74	81
Average Queue (ft)	43	52
95th Queue (ft)	73	73
Link Distance (ft)	152	152
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	63
Average Queue (ft)	28
95th Queue (ft)	58
Link Distance (ft)	1016
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	WB
Directions Served	TR
Maximum Queue (ft)	52
Average Queue (ft)	20
95th Queue (ft)	40
Link Distance (ft)	1361
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 384

APPENDIX E:

SimTraffic Reports – Baseline with Project

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	16731	16957	16966	16662	16758	16816
Vehs Exited	16732	16953	16885	16685	16676	16790
Starting Vehs	730	786	733	778	818	748
Ending Vehs	729	790	814	755	900	790
Travel Distance (mi)	17759	17907	17983	17743	17649	17808
Travel Time (hr)	808.4	827.1	824.1	845.1	908.3	842.6
Total Delay (hr)	324.1	340.0	335.2	362.1	427.9	357.8
Total Stops	26106	27059	26543	25497	27881	26612
Fuel Used (gal)	701.3	708.9	710.4	708.6	720.0	709.8

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	16731	16957	16966	16662	16758	16816
Vehs Exited	16732	16953	16885	16685	16676	16790
Starting Vehs	730	786	733	778	818	748
Ending Vehs	729	790	814	755	900	790
Travel Distance (mi)	17759	17907	17983	17743	17649	17808
Travel Time (hr)	808.4	827.1	824.1	845.1	908.3	842.6
Total Delay (hr)	324.1	340.0	335.2	362.1	427.9	357.8
Total Stops	26106	27059	26543	25497	27881	26612
Fuel Used (gal)	701.3	708.9	710.4	708.6	720.0	709.8

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.8	0.0	0.0	0.8
Denied Del/Veh (s)	2.3	2.8	0.0	0.0	1.5
Total Delay (hr)	0.0	0.6	0.0	0.1	0.6
Total Del/Veh (s)	15.4	2.0	0.1	0.3	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	12.8	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.2	0.1	0.0	0.0
Total Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.3
Total Del/Veh (s)	4.9	3.0	1.3	1.1	0.6	3.6
Stop Delay (hr)	0.2	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.6	3.2	0.0	0.0	0.0	2.7

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.8
Denied Del/Veh (s)	2.9	1.9	2.0	0.2	0.1	0.1	0.1	1.3
Total Delay (hr)	5.0	0.1	1.2	1.7	1.2	3.5	0.2	13.0
Total Del/Veh (s)	25.4	24.2	11.2	50.6	14.1	20.7	3.7	19.9
Stop Delay (hr)	3.6	0.1	0.6	1.5	0.5	2.1	0.1	8.5
Stop Del/Veh (s)	18.1	15.3	5.7	43.8	5.7	12.4	2.5	13.0

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	1.1	0.1	3.7	1.8	8.4	0.5	15.6
Total Del/Veh (s)	31.3	2.1	20.7	20.3	25.3	16.2	21.7
Stop Delay (hr)	1.0	0.0	2.8	1.2	4.6	0.3	9.9
Stop Del/Veh (s)	29.3	0.7	15.8	13.8	13.8	8.1	13.9

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.5	0.1	1.1	0.7	2.6	0.3	1.8	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.8	0.0	0.0	0.0	1.6	0.2	1.7	0.3

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	3.8	3.9	0.7	0.3	0.7	0.5	1.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.2	2.0	0.0	0.0	0.2	0.0	0.7

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.2	1.2	0.0	0.0	0.0
Total Delay (hr)	0.2	5.7	0.3	3.2	4.8	0.4	3.8	0.9	0.4	3.3	1.1	0.0
Total Del/Veh (s)	54.1	32.2	6.8	41.3	23.1	4.1	45.9	40.5	4.7	37.8	37.4	12.8
Stop Delay (hr)	0.2	4.7	0.2	2.9	3.2	0.2	3.1	0.8	0.0	3.1	1.0	0.0
Stop Del/Veh (s)	52.0	26.5	5.4	37.0	15.7	2.0	37.2	32.2	0.2	35.0	32.7	12.9

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.2
Total Delay (hr)	24.1
Total Del/Veh (s)	26.8
Stop Delay (hr)	19.3
Stop Del/Veh (s)	21.5

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.4	0.0	0.7	0.0	0.0	0.0	4.1	0.3	0.3	0.3	0.2	3.7
Total Delay (hr)	0.1	0.1	0.0	0.2	0.4	0.6	0.1	0.6	0.2	1.0	0.4	0.0
Total Del/Veh (s)	24.3	13.0	2.3	28.7	19.0	7.3	20.9	20.4	10.1	16.7	18.7	3.3
Stop Delay (hr)	0.1	0.1	0.0	0.2	0.3	0.3	0.1	0.4	0.2	0.8	0.3	0.0
Stop Del/Veh (s)	23.1	10.1	2.4	25.9	14.6	4.3	18.7	15.2	8.7	13.6	13.2	2.9

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	3.6
Total Del/Veh (s)	14.3
Stop Delay (hr)	2.8
Stop Del/Veh (s)	10.9

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.4	0.3	0.1
Total Delay (hr)	6.1	2.7	6.8	7.4	22.9
Total Del/Veh (s)	25.2	6.1	55.2	31.3	22.1
Stop Delay (hr)	5.0	0.9	5.8	5.9	17.6
Stop Del/Veh (s)	20.6	2.2	47.3	24.8	16.9

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	1.1	2.1	1.4	1.4	0.9	7.0
Total Del/Veh (s)	4.9	6.9	5.8	20.5	14.2	7.6
Stop Delay (hr)	0.5	0.8	0.0	1.3	0.8	3.3
Stop Del/Veh (s)	2.1	2.5	0.0	18.3	13.0	3.6

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.2	2.4	3.4	0.1	0.1	1.7	0.2	1.8
Total Delay (hr)	36.6	9.4	0.5	2.8	13.5	0.2	2.0	2.3	0.1	0.9	2.4	3.0
Total Del/Veh (s)	196.9	39.8	7.8	60.0	46.8	12.4	62.4	29.5	6.7	68.3	32.7	13.2
Stop Delay (hr)	34.7	7.5	0.2	2.5	10.8	0.1	1.8	1.8	0.1	0.9	2.0	0.6
Stop Del/Veh (s)	186.4	31.7	3.9	54.9	37.5	7.3	58.2	23.3	6.2	65.4	27.4	2.8

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.6
Total Delay (hr)	73.7
Total Del/Veh (s)	57.4
Stop Delay (hr)	63.2
Stop Del/Veh (s)	49.2

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.4	0.0	0.2	0.6	0.1	0.3	0.3	0.0	0.2	3.8	0.1	3.9
Total Delay (hr)	0.1	0.4	0.1	5.0	0.2	0.0	0.7	1.7	0.3	0.1	1.0	0.0
Total Del/Veh (s)	39.2	27.5	6.5	29.8	5.2	2.3	37.5	19.6	5.6	41.3	29.6	3.1
Stop Delay (hr)	0.1	0.3	0.1	3.7	0.1	0.0	0.7	1.3	0.2	0.1	0.8	0.0
Stop Del/Veh (s)	38.0	22.5	6.2	22.4	3.0	2.1	34.9	14.4	3.4	38.4	22.8	2.8

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	9.7
Total Del/Veh (s)	21.1
Stop Delay (hr)	7.4
Stop Del/Veh (s)	16.1

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.4	0.5
Denied Del/Veh (s)	0.0	0.0	1.4	3.1	0.9
Total Delay (hr)	0.4	2.4	0.9	0.4	4.1
Total Del/Veh (s)	4.6	8.0	15.7	2.7	7.0
Stop Delay (hr)	0.2	0.8	0.7	0.0	1.7
Stop Del/Veh (s)	1.9	2.7	12.3	0.1	2.9

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.4	0.4
Denied Del/Veh (s)	0.0	0.0	1.0	3.1	1.1
Total Delay (hr)	0.5	1.6	0.3	1.0	3.4
Total Del/Veh (s)	7.8	9.9	8.8	7.9	8.8
Stop Delay (hr)	0.2	0.9	0.2	0.6	1.9
Stop Del/Veh (s)	3.9	5.2	6.6	4.9	5.0

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	2.9	0.2	0.3	0.2	0.3
Total Delay (hr)	2.1	0.6	0.9	2.2	2.8	0.2	8.7
Total Del/Veh (s)	15.9	6.2	35.6	10.2	23.3	4.7	13.9
Stop Delay (hr)	1.2	0.3	0.8	1.0	2.0	0.1	5.4
Stop Del/Veh (s)	9.6	2.5	32.1	4.6	16.7	3.8	8.7

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	3.2	0.7	0.0	0.0	1.5	0.4	0.7
Total Delay (hr)	1.0	0.1	0.8	0.6	0.5	0.8	3.8
Total Del/Veh (s)	13.3	4.0	4.4	6.9	23.0	8.7	7.8
Stop Delay (hr)	0.8	0.1	0.4	0.2	0.4	0.3	2.2
Stop Del/Veh (s)	10.5	3.2	2.0	2.7	19.3	3.4	4.5

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	3.2	0.6	3.5	3.6	0.3	0.2	3.5	0.2	3.5	0.0	0.0	0.0
Total Delay (hr)	0.0	1.2	0.3	0.5	0.4	0.1	0.5	1.3	0.1	2.4	1.6	0.0
Total Del/Veh (s)	27.8	16.6	6.3	28.9	11.6	3.4	25.2	17.8	4.1	49.1	16.3	5.4
Stop Delay (hr)	0.0	0.8	0.2	0.5	0.2	0.1	0.4	0.9	0.0	2.0	0.9	0.0
Stop Del/Veh (s)	25.1	11.5	5.0	26.5	7.6	2.7	22.0	12.1	2.6	40.6	8.8	3.2

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.9
Total Delay (hr)	8.3
Total Del/Veh (s)	18.2
Stop Delay (hr)	6.0
Stop Del/Veh (s)	13.2

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.0	0.1	0.0	0.0	0.3
Total Del/Veh (s)	5.7	2.9	1.2	1.8	3.6	1.9	2.6
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.7	2.2	0.1	0.0	0.3	0.2	0.9

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.4
Total Del/Veh (s)	4.1	1.9	5.1	6.0	3.1	2.5	8.2	3.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.9	0.4	0.4	1.4	1.8	1.6	1.9	1.1

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBR	WBL	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.2	4.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.1	0.0	0.3	0.0	0.0	0.2	0.0	0.7
Total Del/Veh (s)	3.9	31.3	6.1	1.6	1.5	4.8	1.1	0.5	1.7
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	4.1	30.3	4.5	0.3	0.3	3.1	0.0	0.0	0.5

22: Metro Air Parkway & Meister Way Performance by movement

Movement	WBL	NBL	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.2	0.3	0.0	0.0	0.0	0.1
Total Delay (hr)	0.2	0.0	0.2	0.0	0.4	0.7
Total Del/Veh (s)	20.8	5.9	0.9	0.7	1.9	1.8
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	19.6	5.0	0.0	0.0	0.2	0.5

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.6	0.4	0.0	0.2	4.3	0.1
Total Delay (hr)	0.1	0.0	0.2	1.3	0.0	0.0	1.7
Total Del/Veh (s)	2.5	1.2	13.6	6.4	5.4	9.4	5.9
Stop Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.3
Stop Del/Veh (s)	0.8	0.9	7.1	0.4	0.4	8.1	0.9

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBT	WBR	NBL	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Total Delay (hr)	0.1	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.0
Total Del/Veh (s)	6.9	1.8	1.0	3.4	0.4	15.1	1.4	17.6	7.4	3.3
Stop Delay (hr)	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4
Stop Del/Veh (s)	5.3	0.6	0.4	1.0	0.0	14.2	1.8	16.2	7.2	1.3

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.3	0.0	0.0	0.0	4.0	0.4
Total Delay (hr)	0.2	0.2	1.6	0.1	0.4	2.6
Total Del/Veh (s)	17.8	3.8	7.7	2.4	15.0	7.5
Stop Delay (hr)	0.2	0.1	0.6	0.1	0.4	1.3
Stop Del/Veh (s)	15.5	1.1	2.8	1.5	13.4	3.8

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.8	0.0	0.6	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.3	0.0	0.2	1.0	0.1	0.0	1.7
Total Del/Veh (s)	13.7	4.1	1.0	13.8	4.1	12.1	3.3	4.7
Stop Delay (hr)	0.0	0.1	0.0	0.2	0.3	0.1	0.0	0.7
Stop Del/Veh (s)	13.6	1.4	1.0	11.9	1.0	10.6	3.4	1.9

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.2	0.0	0.6	0.0	0.8
Total Del/Veh (s)	2.0	0.7	2.3	2.4	2.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.2	0.0	2.5	0.1

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.0	4.0	0.1	0.1
Total Delay (hr)	0.0	0.7	0.0	0.6	1.1	0.1	0.1	2.6
Total Del/Veh (s)	19.2	7.5	1.5	14.8	4.0	22.9	4.9	5.9
Stop Delay (hr)	0.0	0.3	0.0	0.5	0.3	0.0	0.1	1.3
Stop Del/Veh (s)	19.0	3.4	1.6	12.2	0.9	21.6	4.7	2.9

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.1	0.0	0.0	0.1	0.2	0.1
Total Delay (hr)	0.0	0.1	0.1	0.1	0.2	0.0	0.4
Total Del/Veh (s)	5.1	3.2	4.0	2.1	8.2	2.8	3.7
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.2	2.6	2.0	0.5	2.4	1.8	1.6

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	3.5	0.2	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.3	0.1	0.0	0.1	0.0	0.5
Total Del/Veh (s)	9.1	4.7	2.3	0.4	1.0	0.1	2.2
Stop Delay (hr)	0.0	0.2	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	7.3	3.6	0.9	0.0	0.0	0.0	1.2

31: Powerline Road & Airport South Industrial Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.6	0.3	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.8	2.6	0.8	0.2	1.7	0.5	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	3.7	3.1	0.0	0.0	0.8	0.1	0.4

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1
Total Delay (hr)	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.9	0.6	0.7	2.8
Total Del/Veh (s)	5.8	7.8	3.9	5.1	7.1	3.3	8.5	3.1	11.7	12.7	10.2	9.0
Stop Delay (hr)	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.6	0.3	0.5	1.8
Stop Del/Veh (s)	4.3	3.8	3.7	3.9	4.4	3.3	4.1	2.7	7.4	5.7	7.1	5.7

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	4.7	4.1	3.9	0.2	0.3	0.0	0.0	0.0	0.1	0.0	0.1
Total Delay (hr)	3.2	0.0	0.0	0.1	0.1	0.5	0.0	1.5	0.0	2.1	3.7	1.7
Total Del/Veh (s)	24.2	15.4	8.0	40.3	37.1	9.2	43.0	19.5	6.3	34.1	19.9	13.1
Stop Delay (hr)	2.7	0.0	0.0	0.1	0.0	0.5	0.0	1.2	0.0	1.6	1.9	0.8
Stop Del/Veh (s)	20.5	11.4	6.1	37.5	32.9	7.9	40.7	15.5	5.5	27.3	10.3	5.8

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.6
Total Delay (hr)	12.9
Total Del/Veh (s)	19.8
Stop Delay (hr)	8.8
Stop Del/Veh (s)	13.6

34: Parcel 8 E Driveway & Bayou Way Performance by movement

Movement	WBL	NBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	0.4	1.0	2.4	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	2.0	0.6

36: Airport South Industrial Drive & Parcel 7C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	1.3	0.8	0.0	4.4	2.8	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.0	3.0	2.7	0.1

37: Airport South Industrial Drive & Parcel 3 West Driveway Performance by movement

Movement	EBL	EBT	WBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.5	0.5	0.3	3.7	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.8	0.0	0.0	3.5	0.3

38: Airport South Industrial Drive & Parcel 6C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.4	0.5	0.0	7.7	5.1	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	6.1	5.1	0.1

39: Airport South Industrial Drive & Parcel 1 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.3	0.7	0.1	6.1	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	4.1	0.4

40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	1.4	0.5	0.1	1.7	0.4	2.7	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.3	0.0	2.5	0.5

41: Airport South Industrial Drive & Parcel 3 East Driveway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.5	0.5	0.4	0.0	5.0	2.1	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0	3.3	2.2	0.1

42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.3	0.2	2.1	0.2	0.0	2.9	5.7	2.6	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.0	0.0	0.8	0.0	0.0	2.9	4.4	2.7	0.2

43: Airport South Industrial Drive & Parcel 5 West Driveway Performance by movement

Movement	EBL	EBT	EBR	WBT	NBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1	0.0	0.3
Total Del/Veh (s)	2.7	1.9	0.6	0.1	7.5	3.7	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.7	0.0	0.0	0.0	5.6	3.4	0.7

44: Airport South Industrial Drive & Parcel 5 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.1	0.4	0.3	6.0	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3	4.2	0.4

74: Performance by movement

Movement	EBR	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.9	2.9
Total Del/Veh (s)	15.0	15.0
Stop Delay (hr)	2.2	2.2
Stop Del/Veh (s)	11.1	11.1

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.4	0.4
Total Del/Veh (s)	4.6	4.6
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.3	1.3

95: Airport South Industrial Drive & Parcel 8 E Driveway Performance by movement

Movement	EBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.3	0.3	0.2
Total Delay (hr)	0.1	0.0	0.1	0.3	0.5
Total Del/Veh (s)	3.9	5.7	9.8	4.7	5.0
Stop Delay (hr)	0.1	0.0	0.0	0.2	0.3
Stop Del/Veh (s)	2.6	2.6	2.8	2.3	2.4

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.5	0.1	0.0	0.6
Total Del/Veh (s)	1.4	0.4	0.3	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.2	0.0	0.4	0.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.2	0.3
Total Del/Veh (s)	0.7	1.1	1.3	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1
Total Del/Veh (s)	0.3	6.3	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	2.9	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.9	0.1	1.9
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.2	0.3
Total Del/Veh (s)	1.4	1.0	1.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.2	0.1

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.4	1.4
Total Del/Veh (s)	6.6	6.6
Stop Delay (hr)	0.7	0.7
Stop Del/Veh (s)	3.2	3.2

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	58.1	58.1
Denied Del/Veh (s)	0.0	0.0	0.0	364.4	110.1
Total Delay (hr)	0.3	0.2	0.9	14.5	15.8
Total Del/Veh (s)	2.8	1.8	4.9	106.7	31.3
Stop Delay (hr)	0.0	0.0	0.0	15.7	15.8
Stop Del/Veh (s)	0.3	0.1	0.1	115.7	31.2

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	0.6	0.6	2.0
Total Del/Veh (s)	3.5	4.6	1.6	2.8
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.3	0.1	0.2

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.4	0.3	1.1	2.7
Total Del/Veh (s)	5.6	5.3	1.9	3.2
Stop Delay (hr)	0.5	0.1	0.0	0.6
Stop Del/Veh (s)	2.0	1.7	0.1	0.7

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	2.4	1.3	0.5	4.3
Total Del/Veh (s)	5.2	3.0	5.1	4.2
Stop Delay (hr)	1.4	0.1	0.1	1.5
Stop Del/Veh (s)	2.9	0.2	0.6	1.5

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	8.3	6.2	14.4
Total Del/Veh (s)	17.5	11.3	14.2
Stop Delay (hr)	7.0	1.3	8.3
Stop Del/Veh (s)	14.9	2.3	8.2

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.5	0.1	0.6
Total Del/Veh (s)	1.9	1.0	1.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.1	1.1
Total Del/Veh (s)	4.6	4.6
Stop Delay (hr)	0.5	0.5
Stop Del/Veh (s)	1.9	1.9

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.1	1.1
Total Del/Veh (s)	8.8	8.8
Stop Delay (hr)	0.4	0.4
Stop Del/Veh (s)	2.7	2.7

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.9	1.2	0.1	2.2
Total Del/Veh (s)	3.7	4.0	4.5	3.9
Stop Delay (hr)	0.2	0.0	0.0	0.3
Stop Del/Veh (s)	1.0	0.1	0.1	0.5

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	1.0	1.0
Total Del/Veh (s)	0.6	0.1	2.7	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.1

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.2	0.3	0.3	0.8
Total Del/Veh (s)	1.7	1.9	1.5	1.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.2	0.2	0.7	1.1
Total Del/Veh (s)	2.8	2.9	2.5	2.6
Stop Delay (hr)	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.3	0.2	0.2	0.3

Total Network Performance

Denied Delay (hr)	63.8
Denied Del/Veh (s)	13.6
Total Delay (hr)	294.1
Total Del/Veh (s)	60.2
Stop Delay (hr)	197.8
Stop Del/Veh (s)	40.5

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	32
Average Queue (ft)	4
95th Queue (ft)	20
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	98
Average Queue (ft)	40
95th Queue (ft)	75
Link Distance (ft)	104
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	L	TR	L	T	T	R
Maximum Queue (ft)	263	297	256	167	286	384	150
Average Queue (ft)	129	176	98	84	94	201	47
95th Queue (ft)	220	266	180	150	218	327	100
Link Distance (ft)			1572		842	654	654
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	350	350		100			
Storage Blk Time (%)	0	0		12	5		
Queuing Penalty (veh)	0	0		35	6		

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	L	T	T	T	R
Maximum Queue (ft)	148	130	206	238	243	353	482	230
Average Queue (ft)	76	28	111	134	116	169	240	101
95th Queue (ft)	131	91	172	197	204	291	401	251
Link Distance (ft)	167	167		471	471	842	842	
Upstream Blk Time (%)	0	0						
Queuing Penalty (veh)	0	0						
Storage Bay Dist (ft)			300					130
Storage Blk Time (%)				0			30	0
Queuing Penalty (veh)				0			35	1

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	10	57
Average Queue (ft)	0	19
95th Queue (ft)	5	46
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	68	28
Average Queue (ft)	34	2
95th Queue (ft)	60	15
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	50	264	280	230	200	204	260	394	119	75	328	154
Average Queue (ft)	10	138	176	49	84	97	95	213	45	6	177	48
95th Queue (ft)	34	212	252	144	149	159	202	344	90	37	292	127
Link Distance (ft)		289	289				883	883				4516
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	0									
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		1	17		0	0	0				1	
Queuing Penalty (veh)		0	30		0	0	1				1	

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	SB	SB	SB	SB	SB
Directions Served	T	L	L	T	T	R
Maximum Queue (ft)	63	183	218	100	85	22
Average Queue (ft)	10	82	116	30	31	2
95th Queue (ft)	42	156	183	72	64	11
Link Distance (ft)	4516			405	405	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		285	285			130
Storage Blk Time (%)					0	
Queuing Penalty (veh)					0	

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	T	T	R	L	T	R	L	TR	L	LT	R
Maximum Queue (ft)	40	38	25	20	64	92	151	36	123	107	159	23
Average Queue (ft)	11	8	4	2	19	34	61	7	52	23	89	3
95th Queue (ft)	33	28	18	12	50	75	106	27	104	74	144	15
Link Distance (ft)		1136	1136			3005	3005		546		1094	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	180			140	250			150		135		135
Storage Blk Time (%)									0	0	2	
Queuing Penalty (veh)									0	0	2	

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	286	272	117	186	223	225	536	384	378	348
Average Queue (ft)	163	162	49	88	109	112	236	176	170	113
95th Queue (ft)	290	283	98	161	199	238	476	343	336	286
Link Distance (ft)	177	177	212	212	212		2349	2349		
Upstream Blk Time (%)	14	12		0	0					
Queuing Penalty (veh)	64	57		0	1					
Storage Bay Dist (ft)						135		450	450	
Storage Blk Time (%)						3	33	0	0	0
Queuing Penalty (veh)						7	70	2	1	0

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	R	L	L	R
Maximum Queue (ft)	169	167	174	273	54	111	113	174
Average Queue (ft)	61	69	62	127	2	49	66	81
95th Queue (ft)	126	136	138	220	28	91	99	138
Link Distance (ft)	200	200	748	748	748		248	
Upstream Blk Time (%)	0	0						
Queuing Penalty (veh)	0	0						
Storage Bay Dist (ft)						200		200
Storage Blk Time (%)								0
Queuing Penalty (veh)								0

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	384	454	495	740	666	620	255	150	212	309	333	362
Average Queue (ft)	259	361	394	456	357	283	63	42	109	193	222	235
95th Queue (ft)	411	516	569	849	734	581	170	126	182	283	312	339
Link Distance (ft)				683	683	683				916	916	916
Upstream Blk Time (%)				25	5	0						
Queuing Penalty (veh)				144	31	1						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	1	21	35	30		9			0	2		35
Queuing Penalty (veh)	3	62	103	192		21			0	4		24

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	142	165	149	137	61	61	59	88	143	126	297
Average Queue (ft)	71	25	71	70	51	6	17	11	35	75	59	33
95th Queue (ft)	224	84	132	126	107	30	42	37	71	128	112	173
Link Distance (ft)				1093	1093	1093	1093			2159	2159	2159
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	381
Average Queue (ft)	159
95th Queue (ft)	339
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	2
Queuing Penalty (veh)	2

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	T	T	R
Maximum Queue (ft)	43	80	76	62	384	390	72	26	135	146	152	138
Average Queue (ft)	6	16	20	19	247	77	11	3	53	61	65	52
95th Queue (ft)	25	52	52	48	407	378	41	15	105	120	117	97
Link Distance (ft)		2971	2971			610	610			1247	1247	
Upstream Blk Time (%)						2						
Queuing Penalty (veh)						7						
Storage Bay Dist (ft)	350			250	350			250	400			250
Storage Blk Time (%)					8	1						
Queuing Penalty (veh)					3	6						

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	SB	SB	SB	SB
Directions Served	L	T	T	R
Maximum Queue (ft)	53	164	126	54
Average Queue (ft)	8	64	17	20
95th Queue (ft)	34	120	67	49
Link Distance (ft)		725	725	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	400			250
Storage Blk Time (%)			0	
Queuing Penalty (veh)			0	

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	69	92	198	217	156	98
Average Queue (ft)	24	32	69	99	75	8
95th Queue (ft)	56	71	146	177	128	48
Link Distance (ft)	281	281	370	370	1196	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					420	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	69	111	179	153	97	195
Average Queue (ft)	22	36	81	69	40	92
95th Queue (ft)	55	80	141	126	79	149
Link Distance (ft)	349	349	225	225	1209	
Upstream Blk Time (%)			0	0		
Queuing Penalty (veh)			0	0		
Storage Bay Dist (ft)					400	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	T	L	R
Maximum Queue (ft)	147	144	96	153	157	180	329	76
Average Queue (ft)	70	79	56	58	76	87	164	27
95th Queue (ft)	120	128	85	113	135	146	267	57
Link Distance (ft)	1361	1361			1391	1391	1040	1040
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			250	200				
Storage Blk Time (%)				0				
Queuing Penalty (veh)				0				

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	B52	SB	SB
Directions Served	L	R	T	T	R	T	T	L	T
Maximum Queue (ft)	168	59	74	98	130	5	5	82	165
Average Queue (ft)	84	25	28	43	58	0	0	40	63
95th Queue (ft)	140	49	63	85	103	3	3	70	119
Link Distance (ft)		1114	1807	1807	1807	2159	2159		2777
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)	275							190	
Storage Blk Time (%)									0
Queuing Penalty (veh)									0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	39	186	89	98	80	65	85	125	109	57	205	212
Average Queue (ft)	5	78	35	35	33	26	40	61	42	22	99	85
95th Queue (ft)	23	139	68	71	69	52	77	104	84	46	179	167
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		1					0	1	0		1	1
Queuing Penalty (veh)		1					0	1	0		2	1

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	17
Average Queue (ft)	2
95th Queue (ft)	9
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	67	48
Average Queue (ft)	34	3
95th Queue (ft)	57	19
Link Distance (ft)	943	711
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	L	TR	LT
Maximum Queue (ft)	50	77	62
Average Queue (ft)	17	39	21
95th Queue (ft)	40	62	49
Link Distance (ft)	2971	2358	1287
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	WB	NB	SB
Directions Served	R	L	L	L
Maximum Queue (ft)	54	51	38	38
Average Queue (ft)	16	11	11	5
95th Queue (ft)	42	39	32	23
Link Distance (ft)				
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100	100	200	200
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 22: Metro Air Parkway & Meister Way

Movement	WB	NB	NB
Directions Served	L	L	TR
Maximum Queue (ft)	66	20	2
Average Queue (ft)	22	2	0
95th Queue (ft)	55	11	2
Link Distance (ft)			1168
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100	200	
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	NB
Directions Served	T	T	R	L	T	T	R	L
Maximum Queue (ft)	43	39	39	64	99	68	7	36
Average Queue (ft)	8	9	4	25	15	6	0	12
95th Queue (ft)	30	30	23	52	62	38	4	33
Link Distance (ft)	782	782			1777	1777		
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			250	200			250	100
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	TR	L	TR	L	TR
Maximum Queue (ft)	59	139	41	26	28	31	53
Average Queue (ft)	17	10	3	4	5	4	15
95th Queue (ft)	42	90	37	18	23	20	43
Link Distance (ft)		782	782	409	409	286	286
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	100						
Storage Blk Time (%)	0	1					
Queuing Penalty (veh)	0	0					

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	SB	
Directions Served	L	T	T	T	T	R	L	
Maximum Queue (ft)	93	54	53	187	172	68	104	
Average Queue (ft)	26	8	9	76	49	24	47	
95th Queue (ft)	65	32	33	158	125	55	85	
Link Distance (ft)		1777	1777	457	457			
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	200					250	100	
Storage Blk Time (%)				0				1
Queuing Penalty (veh)				0				0

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	38	80	66	27	20	81	166	172	78	55
Average Queue (ft)	5	25	19	3	2	34	43	42	25	19
95th Queue (ft)	24	65	52	16	14	67	115	114	58	43
Link Distance (ft)		566	566	566			707	707	842	842
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	200				150	250				
Storage Blk Time (%)							0			
Queuing Penalty (veh)							0			

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	49
Average Queue (ft)	15
95th Queue (ft)	40
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	U	T	T	R	L	L	T	T	L	R	R
Maximum Queue (ft)	43	90	112	38	70	115	170	183	36	77	67
Average Queue (ft)	5	34	39	4	16	51	40	40	6	28	19
95th Queue (ft)	24	77	90	22	50	91	112	114	27	61	46
Link Distance (ft)		972	972	972			970	970		840	840
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				430	430			150		
Storage Blk Time (%)											
Queuing Penalty (veh)											

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	60	52	57	62
Average Queue (ft)	34	29	23	31
95th Queue (ft)	52	46	48	52
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	EB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	TR
Maximum Queue (ft)	34	99	56	6	10	5
Average Queue (ft)	6	51	22	0	0	0
95th Queue (ft)	25	79	49	4	6	4
Link Distance (ft)		680		456	678	678
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	100		200			
Storage Blk Time (%)		0				
Queuing Penalty (veh)		0				

Intersection: 31: Powerline Road & Airport South Industrial Drive

Movement	WB	WB	SB
Directions Served	L	R	L
Maximum Queue (ft)	52	45	40
Average Queue (ft)	16	9	3
95th Queue (ft)	42	31	20
Link Distance (ft)		152	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 32: Metro Air Parkway & Airport South Industrial Drive

Movement	EB	EB	WB	WB	B117	NB	SB	SB
Directions Served	L	TR	L	TR	T	LTR	L	TR
Maximum Queue (ft)	80	66	63	91	12	68	185	223
Average Queue (ft)	36	31	26	53	1	31	89	111
95th Queue (ft)	63	54	60	83	9	59	151	186
Link Distance (ft)		150		66	104	444	281	281
Upstream Blk Time (%)			0	2				
Queuing Penalty (veh)			0	5				
Storage Bay Dist (ft)	100		100					
Storage Blk Time (%)	0	0	0	2				
Queuing Penalty (veh)	0	0	0	1				

Intersection: 33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway

Movement	EB	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	L	TR	L	TR	L	T	TR	L	L	T	T	R
Maximum Queue (ft)	253	174	34	137	35	156	110	129	173	209	315	175
Average Queue (ft)	184	12	5	67	4	73	48	48	85	104	124	109
95th Queue (ft)	266	73	24	113	19	127	89	97	147	193	251	185
Link Distance (ft)	208			303		281	281			471	471	
Upstream Blk Time (%)	11											
Queuing Penalty (veh)	0											
Storage Bay Dist (ft)		150	150		150			150	150			150
Storage Blk Time (%)	20	0		0		0		0	0	2	3	1
Queuing Penalty (veh)	2	0		0		0		0	0	4	13	4

Intersection: 34: Parcel 8 E Driveway & Bayou Way

Movement	NB
Directions Served	LR
Maximum Queue (ft)	38
Average Queue (ft)	11
95th Queue (ft)	34
Link Distance (ft)	1130
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 36: Airport South Industrial Drive & Parcel 7C Driveway

Movement	B117	B117	WB	SB
Directions Served		T	TR	LR
Maximum Queue (ft)	10	29	10	54
Average Queue (ft)	1	3	0	10
95th Queue (ft)	6	15	7	37
Link Distance (ft)	66	66	124	233
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 37: Airport South Industrial Drive & Parcel 3 West Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	60	69
Average Queue (ft)	19	20
95th Queue (ft)	49	50
Link Distance (ft)	124	888
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 38: Airport South Industrial Drive & Parcel 6C Driveway

Movement	B114	SB
Directions Served	T	LR
Maximum Queue (ft)	11	57
Average Queue (ft)	0	9
95th Queue (ft)	6	37
Link Distance (ft)	66	297
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 39: Airport South Industrial Drive & Parcel 1 East Driveway

Movement	WB	SB
Directions Served	TR	LR
Maximum Queue (ft)	9	61
Average Queue (ft)	0	26
95th Queue (ft)	7	55
Link Distance (ft)	66	490
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive

Movement	EB	WB	NB
Directions Served	TR	L	LTR
Maximum Queue (ft)	11	58	55
Average Queue (ft)	0	9	24
95th Queue (ft)	8	37	50
Link Distance (ft)	149		830
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		100	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 41: Airport South Industrial Drive & Parcel 3 East Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	23	54
Average Queue (ft)	1	11
95th Queue (ft)	9	38
Link Distance (ft)		671
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	150	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	38	48	58	46
Average Queue (ft)	5	8	12	9
95th Queue (ft)	23	31	40	33
Link Distance (ft)			875	315
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 43: Airport South Industrial Drive & Parcel 5 West Driveway

Movement	EB	NB	SB
Directions Served	L	LTR	LTR
Maximum Queue (ft)	56	78	56
Average Queue (ft)	14	25	22
95th Queue (ft)	43	57	51
Link Distance (ft)		380	927
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 44: Airport South Industrial Drive & Parcel 5 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	42
Average Queue (ft)	8
95th Queue (ft)	32
Link Distance (ft)	900
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	389
Average Queue (ft)	160
95th Queue (ft)	322
Link Distance (ft)	604
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	56	75
Average Queue (ft)	17	36
95th Queue (ft)	47	66
Link Distance (ft)	1036	1036
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 95: Airport South Industrial Drive & Parcel 8 E Driveway

Movement	EB	NB	SB
Directions Served	L	LT	TR
Maximum Queue (ft)	76	46	110
Average Queue (ft)	36	10	54
95th Queue (ft)	62	36	85
Link Distance (ft)	123	262	1130
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	32
Average Queue (ft)	2
95th Queue (ft)	14
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement	EB
Directions Served	R
Maximum Queue (ft)	4
Average Queue (ft)	0
95th Queue (ft)	3
Link Distance (ft)	735
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 401: I-5 Southbound Ramp

Movement	
Directions Served	
Maximum Queue (ft)	
Average Queue (ft)	
95th Queue (ft)	
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	142	148
Average Queue (ft)	73	87
95th Queue (ft)	121	129
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	WB	WB	WB	SB	SB
Directions Served	T	T	T	R	L	R
Maximum Queue (ft)	17	11	11	125	368	356
Average Queue (ft)	1	0	1	5	335	259
95th Queue (ft)	11	8	9	47	373	478
Link Distance (ft)	3005	289	289	289	316	316
Upstream Blk Time (%)					98	77
Queuing Penalty (veh)					0	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB	EB
Directions Served	T	T	R
Maximum Queue (ft)	176	222	298
Average Queue (ft)	6	8	12
95th Queue (ft)	124	128	143
Link Distance (ft)	883	883	883
Upstream Blk Time (%)		0	0
Queuing Penalty (veh)		0	0
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1003: Del Paso Road

Movement	EB	EB	WB
Directions Served	T	TR	T
Maximum Queue (ft)	81	87	11
Average Queue (ft)	21	23	0
95th Queue (ft)	138	152	8
Link Distance (ft)	748	748	177
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB	WB
Directions Served	T	T	T	T	TR
Maximum Queue (ft)	92	90	78	7	85
Average Queue (ft)	32	31	27	0	3
95th Queue (ft)	160	157	142	5	60
Link Distance (ft)	212	212	212	370	370
Upstream Blk Time (%)	6	2	1		0
Queuing Penalty (veh)	35	9	4		0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	283	241	187	282	494	556	376
Average Queue (ft)	135	113	79	10	37	99	78
95th Queue (ft)	498	434	327	130	212	302	236
Link Distance (ft)	370	370	370	683	683	683	683
Upstream Blk Time (%)	17	9	2	0	0	0	0
Queuing Penalty (veh)	101	50	12	0	0	0	0
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	100	90
Average Queue (ft)	55	59
95th Queue (ft)	85	80
Link Distance (ft)	152	152
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	162
Average Queue (ft)	76
95th Queue (ft)	130
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement	WB
Directions Served	TR
Maximum Queue (ft)	11
Average Queue (ft)	0
95th Queue (ft)	8
Link Distance (ft)	289
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 1161

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	15993	15761	15742	15753	15879	15823
Vehs Exited	15968	15769	15695	15712	15856	15805
Starting Vehs	638	665	654	715	688	664
Ending Vehs	663	657	701	756	711	677
Travel Distance (mi)	17012	16613	16677	16517	16803	16725
Travel Time (hr)	686.6	667.8	712.3	681.5	710.3	691.7
Total Delay (hr)	226.9	217.7	260.0	234.4	255.2	238.9
Total Stops	23946	23282	25481	23314	24534	24101
Fuel Used (gal)	658.0	641.3	651.8	639.3	657.5	649.6

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	15993	15761	15742	15753	15879	15823
Vehs Exited	15968	15769	15695	15712	15856	15805
Starting Vehs	638	665	654	715	688	664
Ending Vehs	663	657	701	756	711	677
Travel Distance (mi)	17012	16613	16677	16517	16803	16725
Travel Time (hr)	686.6	667.8	712.3	681.5	710.3	691.7
Total Delay (hr)	226.9	217.7	260.0	234.4	255.2	238.9
Total Stops	23946	23282	25481	23314	24534	24101
Fuel Used (gal)	658.0	641.3	651.8	639.3	657.5	649.6

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.4	0.0	0.0	0.4
Denied Del/Veh (s)	1.1	2.6	0.0	0.0	1.0
Total Delay (hr)	0.0	0.2	0.0	0.1	0.3
Total Del/Veh (s)	11.4	1.2	0.1	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	9.5	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0	0.1
Total Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.2	1.0	2.3	1.4	0.8	0.7	2.3
Stop Delay (hr)	0.1	0.0	0.1	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.9	0.0	2.5	0.0	0.0	0.0	1.7

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.5
Denied Del/Veh (s)	2.5	1.6	1.4	0.2	0.0	0.1	0.0	0.9
Total Delay (hr)	2.0	0.0	1.3	1.3	1.9	3.0	0.1	9.6
Total Del/Veh (s)	16.6	19.2	10.1	39.5	17.1	25.1	3.3	17.3
Stop Delay (hr)	1.4	0.0	0.7	1.0	0.8	2.0	0.1	6.1
Stop Del/Veh (s)	11.8	10.5	5.6	31.7	7.1	16.9	2.5	11.0

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.8	0.1	3.9	2.3	4.5	0.7	12.2
Total Del/Veh (s)	26.9	1.3	19.9	19.6	23.3	13.3	19.3
Stop Delay (hr)	0.7	0.0	2.8	1.4	2.7	0.4	8.1
Stop Del/Veh (s)	25.0	0.1	14.3	12.2	14.2	7.7	12.8

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.1	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Total Del/Veh (s)	0.9	0.4	0.8	0.2	4.1	3.1	2.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.3	0.0	0.0	0.0	2.0	1.7	1.2

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Total Del/Veh (s)	5.0	0.5	2.5	0.6	0.2	1.5	1.3	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	3.0	0.0	1.7	0.0	0.0	0.1	0.0	0.4

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.1	0.8	0.0	0.0	0.4
Total Delay (hr)	0.0	1.9	0.4	2.3	2.3	0.2	1.0	0.5	0.4	2.8	0.7	0.0
Total Del/Veh (s)	32.0	25.7	6.3	31.9	15.5	3.0	32.8	39.2	5.1	25.8	30.2	4.9
Stop Delay (hr)	0.0	1.6	0.3	2.0	1.5	0.1	0.9	0.4	0.0	2.5	0.6	0.0
Stop Del/Veh (s)	30.4	21.7	5.7	28.2	10.3	1.3	28.0	31.7	0.2	22.8	25.8	5.1

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.1
Total Delay (hr)	12.6
Total Del/Veh (s)	18.3
Stop Delay (hr)	10.0
Stop Del/Veh (s)	14.5

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.6	0.0	0.0	0.0	3.9	0.1	0.1	0.1
Total Delay (hr)	0.3	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.7
Total Del/Veh (s)	7.1	1.3	12.3	4.8	1.3	11.9	2.4	11.5	6.8
Stop Delay (hr)	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.5
Stop Del/Veh (s)	4.9	1.2	9.7	2.6	1.0	10.8	2.9	9.9	5.1

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.5	0.4	0.2
Total Delay (hr)	4.0	2.1	4.8	10.2	21.1
Total Del/Veh (s)	15.9	6.1	43.0	30.5	20.3
Stop Delay (hr)	2.9	0.8	4.0	7.2	15.0
Stop Del/Veh (s)	11.6	2.4	36.0	21.5	14.4

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	1.3	1.0	2.1	0.3	5.5
Total Del/Veh (s)	4.3	5.2	4.8	21.9	9.9	7.2
Stop Delay (hr)	0.4	0.5	0.0	1.9	0.3	3.0
Stop Del/Veh (s)	2.0	1.9	0.0	19.4	9.0	4.0

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	2.5	3.0	0.2	0.3	1.4	0.1	1.4
Total Delay (hr)	24.7	8.9	0.9	3.6	9.2	0.4	19.8	5.0	0.7	1.9	1.4	1.4
Total Del/Veh (s)	112.5	32.2	9.1	63.7	37.8	11.6	238.4	56.1	12.1	63.9	42.2	8.8
Stop Delay (hr)	22.3	6.8	0.5	3.3	7.3	0.3	18.8	4.0	0.6	1.8	1.2	0.3
Stop Del/Veh (s)	101.7	24.9	5.0	58.6	30.1	7.5	226.9	44.6	10.2	60.6	37.1	2.2

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.6
Total Delay (hr)	77.8
Total Del/Veh (s)	56.7
Stop Delay (hr)	67.3
Stop Del/Veh (s)	49.0

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	3.2	0.2	3.4	0.0	0.0	0.7	0.3	0.0	0.3	4.0	0.1	0.7
Total Delay (hr)	0.3	0.1	0.3	1.2	1.1	0.0	1.9	0.7	0.3	0.2	0.7	7.0
Total Del/Veh (s)	29.2	32.3	5.5	22.6	16.5	3.8	24.2	9.6	4.2	33.9	21.8	15.2
Stop Delay (hr)	0.3	0.1	0.2	1.0	0.8	0.0	1.5	0.4	0.1	0.2	0.5	5.3
Stop Del/Veh (s)	27.4	26.7	4.2	19.0	11.4	3.3	19.4	5.9	2.2	31.1	15.6	11.5

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.7	0.8
Denied Del/Veh (s)	0.0	0.0	1.9	3.2	1.4
Total Delay (hr)	0.8	1.0	0.8	1.3	3.9
Total Del/Veh (s)	6.1	5.9	12.2	6.1	6.7
Stop Delay (hr)	0.3	0.3	0.5	0.2	1.4
Stop Del/Veh (s)	2.4	2.1	8.6	0.9	2.4

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	3.5	0.3
Total Delay (hr)	0.4	0.5	0.3	0.1	1.2
Total Del/Veh (s)	3.8	3.6	9.2	3.9	4.3
Stop Delay (hr)	0.1	0.2	0.2	0.1	0.6
Stop Del/Veh (s)	1.1	1.3	6.9	3.4	1.9

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	3.2	0.2	0.2	0.2	0.2
Total Delay (hr)	2.9	0.8	0.8	0.8	1.3	0.2	6.7
Total Del/Veh (s)	12.0	7.0	32.6	5.4	22.9	6.6	11.1
Stop Delay (hr)	1.3	0.3	0.7	0.3	1.1	0.2	3.7
Stop Del/Veh (s)	5.3	2.1	29.8	2.0	18.6	5.9	6.1

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	3.4	0.7	0.0	0.0	1.6	0.3	0.5
Total Delay (hr)	0.8	0.0	1.1	0.8	0.3	0.6	3.5
Total Del/Veh (s)	14.1	4.3	4.7	7.5	19.7	6.7	7.0
Stop Delay (hr)	0.6	0.0	0.4	0.3	0.2	0.2	1.8
Stop Del/Veh (s)	11.7	4.1	1.8	2.6	16.8	2.3	3.6

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	3.7	0.3	3.9	3.4	0.4	0.2	3.5	0.2	3.5	0.0	0.0	0.0
Total Delay (hr)	0.1	0.8	0.0	0.7	0.9	0.1	0.7	1.1	0.1	0.9	1.5	0.0
Total Del/Veh (s)	29.9	19.2	4.7	29.2	14.3	3.0	25.4	18.5	4.0	30.1	12.1	5.5
Stop Delay (hr)	0.1	0.6	0.0	0.6	0.6	0.1	0.6	0.8	0.1	0.7	0.9	0.0
Stop Del/Veh (s)	27.5	14.7	3.8	26.1	9.1	2.4	22.3	13.0	2.3	24.1	7.1	3.4

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.9
Total Delay (hr)	6.9
Total Del/Veh (s)	15.7
Stop Delay (hr)	5.0
Stop Del/Veh (s)	11.4

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.2	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.3	0.0	0.0	0.1	0.0	0.4
Total Del/Veh (s)	6.2	4.2	1.0	0.9	3.7	2.3	3.4
Stop Delay (hr)	0.0	0.2	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.8	2.4	0.3	0.2	0.4	0.3	1.5

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Total Delay (hr)	0.1	0.4	0.0	0.1	0.0	0.0	0.1	0.7
Total Del/Veh (s)	5.8	3.4	7.3	9.1	2.3	3.3	8.4	4.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.0	0.3	0.2	2.3	1.6	2.2	2.1	0.8

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBR	WBL	NBL	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	4.5	4.2	4.2	0.1	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.6
Total Del/Veh (s)	7.8	2.6	17.2	3.7	1.8	1.9	0.7	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	6.7	2.7	16.1	1.9	0.2	0.3	0.0	0.3

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBR	WBL	NBL	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	4.3	4.0	0.6	0.0	0.1	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.2	0.0	0.3	0.5
Total Del/Veh (s)	2.6	16.6	3.0	0.7	0.5	1.9	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	3.0	15.7	2.3	0.0	0.0	0.5	0.3

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.4	0.6	0.0	3.9	3.9	4.1	0.8
Total Delay (hr)	0.6	0.0	0.0	1.1	0.0	0.1	0.3	2.2
Total Del/Veh (s)	5.7	1.8	19.5	8.8	16.8	3.5	15.0	7.4
Stop Delay (hr)	0.2	0.0	0.0	0.3	0.0	0.1	0.2	0.9
Stop Del/Veh (s)	2.1	1.3	15.5	2.1	15.2	3.0	13.3	3.0

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.1	0.0	0.1	0.3	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.7
Total Del/Veh (s)	2.5	1.2	0.5	3.2	2.9	2.0	8.2	2.2	8.8	3.9	2.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Stop Del/Veh (s)	1.2	0.3	0.2	1.0	0.1	0.1	7.3	2.4	6.9	3.9	0.8

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.3	0.0	0.3
Denied Del/Veh (s)	0.4	0.0	0.0	0.0	3.8	3.8	0.8
Total Delay (hr)	0.1	1.4	0.8	0.0	1.3	0.0	3.6
Total Del/Veh (s)	21.7	8.2	7.1	1.7	17.8	4.9	9.5
Stop Delay (hr)	0.1	0.4	0.3	0.0	1.1	0.0	2.0
Stop Del/Veh (s)	18.4	2.4	3.1	1.4	15.5	4.2	5.3

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.8	0.0	0.1	0.3	0.0	0.1	1.3
Total Del/Veh (s)	12.3	3.9	0.9	12.3	2.3	11.5	3.8	3.5
Stop Delay (hr)	0.0	0.2	0.0	0.1	0.1	0.0	0.1	0.5
Stop Del/Veh (s)	11.9	1.2	0.7	11.0	0.7	10.5	3.8	1.4

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.5	0.0	0.2	0.0	0.8
Total Del/Veh (s)	2.4	0.9	1.6	2.5	2.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.1	0.1	2.6	0.1

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.0	3.7	0.1	0.0
Total Delay (hr)	0.0	1.8	0.0	0.5	0.4	0.0	0.2	3.0
Total Del/Veh (s)	29.1	8.3	1.4	15.5	2.8	17.0	7.8	7.1
Stop Delay (hr)	0.0	0.6	0.0	0.4	0.1	0.0	0.2	1.4
Stop Del/Veh (s)	26.9	2.5	1.3	13.3	0.6	15.6	7.7	3.2

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.0	0.0	0.1	0.2	0.1
Total Delay (hr)	0.0	0.1	0.1	0.1	0.2	0.0	0.4
Total Del/Veh (s)	4.3	3.4	3.7	3.8	8.6	2.8	4.7
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.2
Stop Del/Veh (s)	2.5	2.6	2.1	1.0	2.5	1.9	2.0

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.0	0.0	0.1	0.0	0.1
Total Delay (hr)	0.1	0.1	0.0	0.1	0.0	0.4
Total Del/Veh (s)	4.7	2.9	0.4	0.9	0.1	1.7
Stop Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.9	1.3	0.0	0.0	0.0	0.8

31: Powerline Road & Airport South Industrial Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.4	0.2	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Total Del/Veh (s)	5.1	1.8	0.4	0.1	1.1	0.7	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	4.1	2.2	0.0	0.0	0.3	0.2	0.6

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.2	0.0	0.0	0.0
Total Delay (hr)	0.3	0.1	0.0	0.0	0.1	0.3	0.0	0.3	0.0	0.3	0.1	0.1
Total Del/Veh (s)	5.9	7.5	3.0	5.1	7.7	4.4	9.0	9.8	4.1	8.7	8.6	5.7
Stop Delay (hr)	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.2	0.1	0.1
Stop Del/Veh (s)	4.3	3.5	3.1	3.8	5.0	4.4	5.9	4.7	3.0	5.3	2.9	3.7

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.0
Total Delay (hr)	1.8
Total Del/Veh (s)	6.5
Stop Delay (hr)	1.2
Stop Del/Veh (s)	4.3

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.6	3.5	3.3	3.7	0.3	0.3	0.0	0.0	0.0	0.2	0.0	0.2
Total Delay (hr)	2.4	0.0	0.0	0.0	0.1	0.5	0.0	3.5	0.0	1.6	1.3	1.0
Total Del/Veh (s)	22.8	19.2	6.4	31.8	39.3	10.7	34.4	21.3	16.1	35.0	15.3	9.8
Stop Delay (hr)	2.0	0.0	0.0	0.0	0.1	0.4	0.0	2.7	0.0	1.3	0.7	0.4
Stop Del/Veh (s)	19.4	14.6	4.9	29.3	35.7	9.6	31.7	16.3	14.6	29.1	8.0	4.2

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	10.4
Total Del/Veh (s)	18.8
Stop Delay (hr)	7.7
Stop Del/Veh (s)	13.9

34: Parcel 8 E Driveway & Bayou Way Performance by movement

Movement	NBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.2	1.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

36: Airport South Industrial Drive & Parcel 7C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.2	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.1	0.9	0.0	8.4	4.5	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.0	6.8	4.3	0.2

37: Airport South Industrial Drive & Parcel 3 West Driveway Performance by movement

Movement	EBL	EBT	WBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1
Total Del/Veh (s)	2.5	0.4	0.3	3.8	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.9	0.0	0.0	3.2	0.4

38: Airport South Industrial Drive & Parcel 6C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.6	0.3	0.0	4.9	2.9	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	3.1	2.7	0.1

39: Airport South Industrial Drive & Parcel 1 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.0	0.0	0.0	0.2	0.2
Total Del/Veh (s)	0.4	0.3	0.0	5.2	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.0	0.0	0.0	2.9	0.9

40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	NBL	NBR	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Total Del/Veh (s)	1.3	0.6	0.0	1.2	0.1	4.9	3.0	2.6	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	3.0	2.4	2.7	1.2

41: Airport South Industrial Drive & Parcel 3 East Driveway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.4	0.3	0.2	0.0	4.9	3.2	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.0	3.0	3.1	0.2

42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.1	0.2	1.4	0.2	0.0	3.2	5.1	3.1	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.9	0.0	0.1	0.0	0.0	2.9	3.3	3.0	0.4

43: Airport South Industrial Drive & Parcel 5 West Driveway Performance by movement

Movement	EBL	EBT	EBR	WBT	NBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.2	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.1	0.3
Total Del/Veh (s)	1.7	0.8	0.2	0.2	7.3	3.8	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Stop Del/Veh (s)	0.2	0.0	0.0	0.0	5.1	3.3	1.4

44: Airport South Industrial Drive & Parcel 5 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.4	0.3	0.3	4.4	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3	2.7	0.3

74: Performance by movement

Movement	EBR	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	3.7	3.7
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.4	1.4

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	4.2	4.2
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.2	1.2

95: Airport South Industrial Drive & Parcel 8 E Driveway Performance by movement

Movement	EBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.2	0.1
Total Delay (hr)	0.2	0.0	0.0	0.1	0.4
Total Del/Veh (s)	4.2	5.9	8.1	2.6	4.0
Stop Delay (hr)	0.2	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.8	2.7	2.4	2.0	2.5

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.2	0.1	0.0	0.3
Total Del/Veh (s)	1.1	0.4	0.3	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.1	0.1	0.6	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.4	0.4
Total Del/Veh (s)	0.4	2.2	1.7	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.0

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	0.4	6.3	0.4
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	3.2	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.5	0.1	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2	0.3
Total Del/Veh (s)	1.1	0.3	0.9	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.2	0.2

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.0	2.0
Total Del/Veh (s)	8.1	8.1
Stop Delay (hr)	1.1	1.1
Stop Del/Veh (s)	4.3	4.3

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.1
Total Delay (hr)	0.1	0.1	0.5	0.8	1.5
Total Del/Veh (s)	2.4	1.8	4.0	9.6	5.0
Stop Delay (hr)	0.0	0.0	0.0	0.6	0.7
Stop Del/Veh (s)	0.2	0.2	0.2	7.2	2.2

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.4	0.3	0.4	1.1
Total Del/Veh (s)	2.4	3.0	1.3	2.0
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.2	0.1	0.1

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	0.1	0.8	1.5
Total Del/Veh (s)	2.7	2.4	1.8	2.1
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.3	0.8	0.5	2.6
Total Del/Veh (s)	2.3	2.4	4.3	2.6
Stop Delay (hr)	0.2	0.0	0.0	0.3
Stop Del/Veh (s)	0.4	0.1	0.4	0.3

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	3.8	4.3	8.1
Total Del/Veh (s)	6.5	9.1	7.7
Stop Delay (hr)	2.3	1.0	3.4
Stop Del/Veh (s)	4.1	2.1	3.2

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.4	0.1	0.5
Total Del/Veh (s)	1.8	1.1	1.5
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	4.1	4.1
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.7	1.7

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.6	0.6
Total Del/Veh (s)	5.9	5.9
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.3	1.3

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.9	0.4	0.1	2.4
Total Del/Veh (s)	5.4	2.4	2.3	4.3
Stop Delay (hr)	0.7	0.0	0.0	0.8
Stop Del/Veh (s)	2.1	0.1	0.1	1.4

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.4	0.5
Total Del/Veh (s)	0.8	0.1	1.8	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.2	0.1

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.2	0.1	0.0	0.3
Total Del/Veh (s)	1.2	1.0	0.6	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.2	0.0	0.0	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.4	0.6	0.3	1.4
Total Del/Veh (s)	3.8	4.5	1.8	3.3
Stop Delay (hr)	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.2	0.2	0.2

Total Network Performance

Denied Delay (hr)	5.0
Denied Del/Veh (s)	1.1
Total Delay (hr)	233.9
Total Del/Veh (s)	51.1
Stop Delay (hr)	152.0
Stop Del/Veh (s)	33.2

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	32
Average Queue (ft)	4
95th Queue (ft)	19
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	76
Average Queue (ft)	31
95th Queue (ft)	56
Link Distance (ft)	104
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	L	TR	L	T	T	R
Maximum Queue (ft)	157	200	248	165	294	361	141
Average Queue (ft)	55	103	103	77	123	172	43
95th Queue (ft)	117	175	179	144	241	303	94
Link Distance (ft)			1572		842	654	654
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	350	350		100			
Storage Blk Time (%)				6	9		
Queuing Penalty (veh)				20	10		

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	L	T	T	T	R
Maximum Queue (ft)	142	72	230	244	261	223	312	228
Average Queue (ft)	67	8	126	143	145	114	156	84
95th Queue (ft)	115	44	199	218	236	196	259	184
Link Distance (ft)	167	167		471	471	842	842	
Upstream Blk Time (%)	0							
Queuing Penalty (veh)	0							
Storage Bay Dist (ft)			300					130
Storage Blk Time (%)				0			12	0
Queuing Penalty (veh)				1			25	1

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	21	74
Average Queue (ft)	1	33
95th Queue (ft)	9	57
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	69	31
Average Queue (ft)	29	4
95th Queue (ft)	55	20
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	29	121	120	108	142	148	108	272	88	35	138	73
Average Queue (ft)	3	54	64	44	66	82	38	129	35	4	65	28
95th Queue (ft)	17	103	109	80	115	132	85	225	74	22	120	61
Link Distance (ft)		289	289				883	883				4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)			0			0						
Queuing Penalty (veh)			0			0						

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	SB	SB	SB	SB	SB
Directions Served	T	L	L	T	T	R
Maximum Queue (ft)	44	187	219	84	65	18
Average Queue (ft)	3	76	118	26	16	3
95th Queue (ft)	19	151	188	62	45	12
Link Distance (ft)	4516			435	435	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		285	285			130
Storage Blk Time (%)			0			
Queuing Penalty (veh)			0			

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB
Directions Served	T	T	R	L	T	R	L	TR	LT
Maximum Queue (ft)	49	60	21	81	68	38	23	27	40
Average Queue (ft)	14	16	3	32	13	7	3	10	11
95th Queue (ft)	40	47	14	64	44	27	15	24	30
Link Distance (ft)	1136	1136			3005	3005		546	1094
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)			140	250			150		
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	241	248	135	181	183	224	486	673	526	434
Average Queue (ft)	119	124	46	76	93	94	185	221	213	144
95th Queue (ft)	211	210	101	147	162	209	351	463	423	349
Link Distance (ft)	178	178	211	211	211		2337	2337		
Upstream Blk Time (%)	2	2		0	0					
Queuing Penalty (veh)	10	11		0	0					
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						2	22	2	1	0
Queuing Penalty (veh)						4	41	14	5	0

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	103	117	155	212	143	151	105
Average Queue (ft)	48	54	42	99	71	88	48
95th Queue (ft)	92	102	108	182	122	132	90
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					200		200
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	348	447	488	674	574	534	263	199	227	263	288	341
Average Queue (ft)	210	314	338	352	286	244	86	71	125	145	178	197
95th Queue (ft)	325	475	527	734	622	505	199	172	195	230	263	308
Link Distance (ft)				684	684	684				916	916	916
Upstream Blk Time (%)				10	3	0						
Queuing Penalty (veh)				68	20	1						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	0	9	18	16		9		0	0	1		22
Queuing Penalty (veh)	1	27	55	126		31		0	1	1		25

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	290	335	796	708	170	147	101	108	93	74	38
Average Queue (ft)	63	234	285	380	300	35	53	36	59	38	27	6
95th Queue (ft)	191	357	394	832	733	121	106	84	103	74	62	26
Link Distance (ft)				1093	1093	1093	1093			2189	2189	2189
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)	0	14	56	3								
Queuing Penalty (veh)	0	15	61	7								

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	272
Average Queue (ft)	98
95th Queue (ft)	227
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	0
Queuing Penalty (veh)	0

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	T	T	R
Maximum Queue (ft)	91	46	28	73	225	113	106	48	299	118	114	110
Average Queue (ft)	27	8	2	35	96	48	40	10	146	37	43	50
95th Queue (ft)	70	29	15	65	181	96	84	35	241	90	84	87
Link Distance (ft)		2968	2968			603	603			1250	1250	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	350			250	350			250	400			250
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	SB	SB	SB
Directions Served	L	T	T
Maximum Queue (ft)	67	115	56
Average Queue (ft)	20	49	13
95th Queue (ft)	53	99	45
Link Distance (ft)		727	727
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	400		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	110	108	106	131	143	270
Average Queue (ft)	44	45	39	59	64	69
95th Queue (ft)	86	90	81	108	112	188
Link Distance (ft)	281	281	370	370	1196	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					420	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	T	L	R
Maximum Queue (ft)	62	80	97	88	84	73
Average Queue (ft)	15	28	37	28	40	27
95th Queue (ft)	44	65	76	71	73	55
Link Distance (ft)	349	349	225	225	1209	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					400	
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	T	T	R	L	T	T	L	R
Maximum Queue (ft)	150	153	114	122	96	112	182	69
Average Queue (ft)	84	95	60	52	41	39	86	23
95th Queue (ft)	133	148	93	100	82	88	149	53
Link Distance (ft)	1361	1361			1391	1391	1040	1040
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)			250	200				
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	B52	SB	SB
Directions Served	L	R	T	T	R	T	T	L	T
Maximum Queue (ft)	122	41	121	139	146	17	8	73	132
Average Queue (ft)	66	11	35	54	64	1	0	30	49
95th Queue (ft)	111	32	85	105	118	8	6	58	98
Link Distance (ft)		1114	1807	1807	1807	2189	2189		2777
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)	275							190	
Storage Blk Time (%)									0
Queuing Penalty (veh)									0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	38	114	41	112	172	55	123	115	108	64	114	176
Average Queue (ft)	9	58	13	48	66	23	54	47	45	28	53	74
95th Queue (ft)	30	104	34	94	135	46	98	93	88	52	96	142
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		0			0		1	1	0			0
Queuing Penalty (veh)		0			0		2	1	0			0

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	14
Average Queue (ft)	2
95th Queue (ft)	10
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	82	35
Average Queue (ft)	44	3
95th Queue (ft)	68	20
Link Distance (ft)	943	711
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	WB	NB	SB
Directions Served	L	TR	LT
Maximum Queue (ft)	62	68	70
Average Queue (ft)	26	30	27
95th Queue (ft)	50	59	57
Link Distance (ft)	2968	2357	1286
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	WB	NB
Directions Served	L	R	L	L
Maximum Queue (ft)	27	45	29	31
Average Queue (ft)	3	19	6	6
95th Queue (ft)	15	43	24	24
Link Distance (ft)				
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100	100	100	200
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	WB	NB
Directions Served	R	L	L
Maximum Queue (ft)	43	45	20
Average Queue (ft)	8	9	1
95th Queue (ft)	30	33	9
Link Distance (ft)			
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100	100	200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB
Directions Served	T	T	R	L	T	T	L	R	L
Maximum Queue (ft)	103	90	54	30	106	92	60	82	85
Average Queue (ft)	37	31	8	3	32	28	9	33	31
95th Queue (ft)	77	68	33	18	80	72	35	61	64
Link Distance (ft)	784	784			1780	1780			
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)			250	200			100	100	100
Storage Blk Time (%)							0	0	
Queuing Penalty (veh)							0	0	

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	L	TR	L	TR	L	TR
Maximum Queue (ft)	29	23	8	26	49	56	34
Average Queue (ft)	3	1	0	7	18	27	9
95th Queue (ft)	17	11	6	25	42	50	32
Link Distance (ft)			784	409	409	285	285
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	100	200					
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	L	T	T	T	T	R	L	T	R
Maximum Queue (ft)	58	132	140	105	89	52	124	241	54
Average Queue (ft)	16	36	49	40	30	15	86	32	13
95th Queue (ft)	44	92	101	85	68	39	132	156	39
Link Distance (ft)		1780	1780	457	457			244	
Upstream Blk Time (%)								1	
Queuing Penalty (veh)								0	
Storage Bay Dist (ft)	200					250	100		100
Storage Blk Time (%)							11	0	
Queuing Penalty (veh)							4	0	

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	L	R
Maximum Queue (ft)	53	135	143	81	41	81	85	85	41	80
Average Queue (ft)	5	35	39	7	6	25	18	17	5	24
95th Queue (ft)	29	97	106	40	25	62	60	56	24	56
Link Distance (ft)		566	566	566			707	707	842	842
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	200				150	250				
Storage Blk Time (%)				0						
Queuing Penalty (veh)				0						

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	46
Average Queue (ft)	13
95th Queue (ft)	36
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	U	T	T	R	L	L	T	T	L	R	R
Maximum Queue (ft)	34	178	177	24	52	95	96	102	41	71	62
Average Queue (ft)	3	61	76	2	12	50	20	19	4	26	25
95th Queue (ft)	18	127	147	12	37	84	72	66	21	56	52
Link Distance (ft)		972	972	972			970	970		840	840
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				430	430			150		
Storage Blk Time (%)		0									
Queuing Penalty (veh)		0									

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	75	57	49	56
Average Queue (ft)	37	25	23	31
95th Queue (ft)	61	48	47	48
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	NB	NB	SB
Directions Served	R	L	T	T
Maximum Queue (ft)	78	72	6	6
Average Queue (ft)	38	27	0	0
95th Queue (ft)	64	57	6	4
Link Distance (ft)	680		426	678
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		200		
Storage Blk Time (%)	0			
Queuing Penalty (veh)	0			

Intersection: 31: Powerline Road & Airport South Industrial Drive

Movement	WB	WB	SB
Directions Served	L	R	L
Maximum Queue (ft)	57	52	5
Average Queue (ft)	20	14	0
95th Queue (ft)	47	38	4
Link Distance (ft)		152	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 32: Metro Air Parkway & Airport South Industrial Drive

Movement	EB	EB	B115	WB	WB	B117	NB	SB	SB
Directions Served	L	TR	T	L	TR	T	LTR	L	TR
Maximum Queue (ft)	107	61	15	63	118	51	100	102	117
Average Queue (ft)	53	25	0	15	65	2	50	52	50
95th Queue (ft)	89	52	11	48	101	20	83	87	88
Link Distance (ft)		150	132		66	104	444	281	281
Upstream Blk Time (%)				0	5				
Queuing Penalty (veh)				0	15				
Storage Bay Dist (ft)	100			100					
Storage Blk Time (%)	0			0	5				
Queuing Penalty (veh)	0			0	1				

Intersection: 33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway

Movement	EB	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	L	TR	L	TR	L	T	TR	L	L	T	T	R
Maximum Queue (ft)	228	87	30	150	27	248	209	115	129	126	166	157
Average Queue (ft)	156	8	3	58	3	141	98	36	68	48	50	73
95th Queue (ft)	231	50	19	106	16	220	176	85	107	103	111	131
Link Distance (ft)	208			303		281	281			471	471	
Upstream Blk Time (%)	2					0	0					
Queuing Penalty (veh)	0					0	0					
Storage Bay Dist (ft)		150	150		150			150	150			150
Storage Blk Time (%)	9			0		8		0	0	0		0
Queuing Penalty (veh)	1			0		0		0	0	0		0

Intersection: 34: Parcel 8 E Driveway & Bayou Way

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 36: Airport South Industrial Drive & Parcel 7C Driveway

Movement	B117	B117	SB
Directions Served		T	LR
Maximum Queue (ft)	4	20	61
Average Queue (ft)	0	1	9
95th Queue (ft)	3	10	36
Link Distance (ft)	66	66	233
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 37: Airport South Industrial Drive & Parcel 3 West Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	31	72
Average Queue (ft)	6	32
95th Queue (ft)	25	61
Link Distance (ft)	124	888
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 38: Airport South Industrial Drive & Parcel 6C Driveway

Movement	EB	B114	SB
Directions Served	T	T	LR
Maximum Queue (ft)	13	32	51
Average Queue (ft)	0	3	10
95th Queue (ft)	9	16	36
Link Distance (ft)	62	66	297
Upstream Blk Time (%)	0		
Queuing Penalty (veh)	0		
Storage Bay Dist (ft)			
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Intersection: 39: Airport South Industrial Drive & Parcel 1 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	72
Average Queue (ft)	38
95th Queue (ft)	62
Link Distance (ft)	490
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	6	24	81	50
Average Queue (ft)	0	1	38	5
95th Queue (ft)	4	12	67	24
Link Distance (ft)			830	743
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	100		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 41: Airport South Industrial Drive & Parcel 3 East Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	6	57
Average Queue (ft)	0	19
95th Queue (ft)	4	47
Link Distance (ft)		671
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	150	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	21	26	67	61
Average Queue (ft)	1	2	23	24
95th Queue (ft)	9	13	55	51
Link Distance (ft)			875	315
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 43: Airport South Industrial Drive & Parcel 5 West Driveway

Movement	EB	NB	SB
Directions Served	L	LTR	LTR
Maximum Queue (ft)	34	81	76
Average Queue (ft)	2	37	34
95th Queue (ft)	17	66	62
Link Distance (ft)		441	927
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 44: Airport South Industrial Drive & Parcel 5 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	48
Average Queue (ft)	17
95th Queue (ft)	45
Link Distance (ft)	900
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	104
Average Queue (ft)	49
95th Queue (ft)	84
Link Distance (ft)	604
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	56	63
Average Queue (ft)	14	30
95th Queue (ft)	43	58
Link Distance (ft)	1036	1036
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 95: Airport South Industrial Drive & Parcel 8 E Driveway

Movement	EB	NB	SB
Directions Served	L	LT	TR
Maximum Queue (ft)	86	51	77
Average Queue (ft)	53	18	37
95th Queue (ft)	82	46	64
Link Distance (ft)	123	262	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

SB

Directions Served T
Maximum Queue (ft) 3
Average Queue (ft) 0
95th Queue (ft) 2
Link Distance (ft) 344
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	31
Average Queue (ft)	3
95th Queue (ft)	19
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	165	170
Average Queue (ft)	92	102
95th Queue (ft)	148	152
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	R	L	R
Maximum Queue (ft)	4	6	6	76	140	4
Average Queue (ft)	0	0	0	4	72	0
95th Queue (ft)	3	4	4	30	118	3
Link Distance (ft)	3005	3005	289	289	316	316
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	15	41
Average Queue (ft)	0	1
95th Queue (ft)	10	29
Link Distance (ft)	883	883
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1003: Del Paso Road

Movement	EB	EB
Directions Served	T	TR
Maximum Queue (ft)	12	11
Average Queue (ft)	1	0
95th Queue (ft)	11	8
Link Distance (ft)	748	748
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB
Directions Served	T	T	T	TR
Maximum Queue (ft)	74	104	42	83
Average Queue (ft)	10	12	4	3
95th Queue (ft)	80	90	50	58
Link Distance (ft)	211	211	211	370
Upstream Blk Time (%)	0	0	0	
Queuing Penalty (veh)	2	2	0	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	229	226	206	146	326	343	159
Average Queue (ft)	59	46	36	5	22	51	36
95th Queue (ft)	310	260	218	93	180	208	110
Link Distance (ft)	370	370	370	684	684	684	684
Upstream Blk Time (%)	5	2	1		0		
Queuing Penalty (veh)	36	15	9		0		
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	84	93
Average Queue (ft)	46	55
95th Queue (ft)	75	80
Link Distance (ft)	152	152
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	113
Average Queue (ft)	49
95th Queue (ft)	91
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1302: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1401: West Elkhorn Boulevard

Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 675

APPENDIX F:

SimTraffic Reports – Cumulative

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	21780	21976	21756	21860	21762	21828
Vehs Exited	21547	21686	21583	21691	21545	21605
Starting Vehs	1295	1332	1356	1339	1327	1322
Ending Vehs	1528	1622	1529	1508	1544	1532
Travel Distance (mi)	20409	20654	20461	20495	20456	20495
Travel Time (hr)	3152.2	3105.2	3187.0	3101.4	3289.5	3167.0
Total Delay (hr)	2576.0	2522.4	2609.2	2523.9	2712.7	2588.8
Total Stops	36920	37729	35476	37906	38296	37267
Fuel Used (gal)	1294.7	1292.6	1305.6	1284.7	1329.8	1301.5

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	21780	21976	21756	21860	21762	21828
Vehs Exited	21547	21686	21583	21691	21545	21605
Starting Vehs	1295	1332	1356	1339	1327	1322
Ending Vehs	1528	1622	1529	1508	1544	1532
Travel Distance (mi)	20409	20654	20461	20495	20456	20495
Travel Time (hr)	3152.2	3105.2	3187.0	3101.4	3289.5	3167.0
Total Delay (hr)	2576.0	2522.4	2609.2	2523.9	2712.7	2588.8
Total Stops	36920	37729	35476	37906	38296	37267
Fuel Used (gal)	1294.7	1292.6	1305.6	1284.7	1329.8	1301.5

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.9	0.0	0.0	0.9
Denied Del/Veh (s)	2.0	3.0	0.0	0.0	2.0
Total Delay (hr)	0.0	0.7	0.0	0.0	0.8
Total Del/Veh (s)	7.0	2.3	0.0	0.3	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	4.7	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.4	0.0	0.0	0.0	0.0	0.4
Total Del/Veh (s)	4.6	2.7	1.3	1.2	0.5	4.1
Stop Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	3.1	2.7	0.0	0.0	0.0	2.8

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.4
Denied Del/Veh (s)	0.4	0.0	1.0	0.0	0.2	0.2	1.2	0.5
Total Delay (hr)	0.0	0.1	3.0	0.9	0.0	6.0	0.1	10.3
Total Del/Veh (s)	12.7	2.3	9.9	12.9	2.4	22.1	9.7	13.8
Stop Delay (hr)	0.0	0.1	1.8	0.6	0.0	3.6	0.0	6.2
Stop Del/Veh (s)	11.4	1.0	5.9	8.5	0.2	13.4	2.0	8.3

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.0	0.0	0.8	0.0	0.0	0.0
Total Delay (hr)	0.2	0.0	0.0	0.2	0.0	0.1	2.8	3.4
Total Del/Veh (s)	4.8	6.3	2.5	4.8	1.8	8.7	12.7	10.0
Stop Delay (hr)	0.2	0.0	0.0	0.1	0.0	0.0	0.1	0.4
Stop Del/Veh (s)	3.3	2.9	2.4	2.7	1.8	4.1	0.3	1.2

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2
Total Del/Veh (s)	0.9	0.5	2.2	0.7	3.6	0.6	2.1	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	0.3	0.0	0.0	0.0	2.0	0.0	1.7	0.7

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.2	0.8	2.0	0.5	0.1	1.1	0.7	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	2.4	0.0	1.7	0.0	0.0	0.3	0.0	0.2

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3	1.5	0.0	0.0	0.0
Total Delay (hr)	0.3	6.0	0.5	4.6	5.2	0.7	6.5	3.5	0.5	13.4	5.1	0.1
Total Del/Veh (s)	46.2	35.4	12.0	45.8	28.3	8.4	92.7	40.6	4.5	132.6	37.7	10.7
Stop Delay (hr)	0.3	5.0	0.4	4.1	3.7	0.5	5.9	2.6	0.0	12.9	4.2	0.1
Stop Del/Veh (s)	44.1	29.3	10.3	40.7	20.6	6.5	84.0	31.0	0.1	127.2	30.9	9.4

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.3
Denied Del/Veh (s)	0.3
Total Delay (hr)	46.6
Total Del/Veh (s)	42.1
Stop Delay (hr)	39.9
Stop Del/Veh (s)	36.1

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.1	2.4	0.0	0.0	0.0	3.8	0.2	0.2	0.3	0.3	3.4
Total Delay (hr)	0.1	0.2	0.0	0.2	0.3	0.5	0.0	0.6	0.2	1.0	0.4	0.0
Total Del/Veh (s)	24.9	16.5	2.1	26.3	16.2	6.8	13.7	20.8	8.5	16.4	18.2	3.5
Stop Delay (hr)	0.1	0.2	0.0	0.1	0.2	0.3	0.0	0.4	0.1	0.8	0.3	0.0
Stop Del/Veh (s)	23.3	13.0	2.6	23.4	11.7	4.2	11.2	15.7	7.2	13.3	12.9	3.0

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.4
Total Del/Veh (s)	13.9
Stop Delay (hr)	2.6
Stop Del/Veh (s)	10.6

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	1.3	2.5	3.8
Denied Del/Veh (s)	0.0	0.0	9.1	9.5	3.2
Total Delay (hr)	4.0	5.3	32.9	23.8	66.1
Total Del/Veh (s)	18.2	9.3	220.7	90.6	54.7
Stop Delay (hr)	3.3	2.0	31.3	20.5	57.0
Stop Del/Veh (s)	14.7	3.5	209.5	78.0	47.2

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	1.3	3.9	12.1	2.1	1.4	20.8
Total Del/Veh (s)	6.1	14.2	27.7	21.9	14.7	18.6
Stop Delay (hr)	0.7	1.8	3.5	1.9	1.2	9.2
Stop Del/Veh (s)	3.1	6.7	8.1	19.3	13.1	8.2

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.0	72.1	8.0	197.9
Denied Del/Veh (s)	0.0	0.0	0.0	2.2	0.3	2.2	3.0	0.1	0.2	470.4	434.8	460.3
Total Delay (hr)	59.6	11.6	0.6	5.3	13.8	0.9	3.0	4.4	1.0	27.9	0.5	46.3
Total Del/Veh (s)	388.4	46.3	10.7	72.1	42.7	15.5	78.9	44.2	16.2	224.7	32.4	134.6
Stop Delay (hr)	57.8	9.2	0.3	4.8	10.6	0.5	2.8	3.6	0.8	25.7	0.4	20.7
Stop Del/Veh (s)	376.7	36.6	5.0	65.5	32.8	8.6	73.7	36.0	14.2	207.2	26.6	60.2

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	278.6
Denied Del/Veh (s)	164.3
Total Delay (hr)	174.8
Total Del/Veh (s)	109.6
Stop Delay (hr)	137.3
Stop Del/Veh (s)	86.0

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.5	0.0	0.0	1.0	0.0	0.9	0.1	0.0	0.3	3.9	0.1	3.9
Total Delay (hr)	0.3	0.4	0.0	0.4	1.3	0.1	0.2	2.7	0.4	0.1	0.4	0.0
Total Del/Veh (s)	24.4	10.7	2.3	23.8	12.6	4.5	33.4	11.5	7.9	22.5	8.8	1.7
Stop Delay (hr)	0.3	0.3	0.0	0.3	0.9	0.1	0.2	1.1	0.1	0.1	0.2	0.0
Stop Del/Veh (s)	22.5	8.2	2.6	21.3	8.6	4.4	28.1	4.8	2.1	20.6	5.7	1.9

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	6.2
Total Del/Veh (s)	11.7
Stop Delay (hr)	3.6
Stop Del/Veh (s)	6.9

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.2	0.5	0.7
Denied Del/Veh (s)	0.0	0.0	1.2	2.7	0.9
Total Delay (hr)	1.5	20.6	3.8	1.9	27.9
Total Del/Veh (s)	10.4	73.5	28.1	9.7	36.8
Stop Delay (hr)	1.0	20.4	3.0	1.1	25.5
Stop Del/Veh (s)	6.5	72.8	22.2	5.7	33.7

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.5	2.7	0.7
Total Delay (hr)	0.5	1.5	1.2	1.0	4.3
Total Del/Veh (s)	8.2	9.0	9.5	10.4	9.3
Stop Delay (hr)	0.3	0.8	0.9	0.7	2.7
Stop Del/Veh (s)	4.2	4.8	6.7	7.7	5.8

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	190.5	580.8	2.2	78.5	14.4	13.5	3.3	186.5	220.1
Denied Del/Veh (s)	0.0	0.0	0.0	1265.1	1280.5	1325.0	751.5	749.1	731.5	999.6	945.8	941.0
Total Delay (hr)	2.9	6.8	1.7	6.3	122.3	0.9	43.7	3.6	10.5	0.1	6.6	22.3
Total Del/Veh (s)	78.8	37.3	12.9	135.9	787.8	1504.5	680.3	336.3	312.4	46.4	64.2	179.8
Stop Delay (hr)	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Stop Del/Veh (s)	1.5	40.5	55.5	172.0								

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	All
Denied Delay (hr)	1319.8
Denied Del/Veh (s)	844.5
Total Delay (hr)	227.6
Total Del/Veh (s)	256.5
Stop Delay (hr)	222.5
Stop Del/Veh (s)	250.8

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.5	0.1	0.0	0.0	0.0	0.1	0.7
Denied Del/Veh (s)	3.1	1.4	0.0	0.0	1.1	0.3	0.8
Total Delay (hr)	4.7	0.4	3.3	0.8	1.6	5.2	16.1
Total Del/Veh (s)	30.5	8.4	15.8	9.9	46.2	17.4	19.3
Stop Delay (hr)	3.7	0.3	2.2	0.5	1.4	2.7	10.8
Stop Del/Veh (s)	23.9	6.0	10.6	5.9	40.1	9.1	13.0

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.9	0.6	3.5	3.7	0.2	0.1	3.8	0.1	3.8	0.0	0.0	0.0
Total Delay (hr)	0.0	0.9	0.1	0.2	0.3	0.1	0.4	0.6	0.0	1.1	0.9	0.0
Total Del/Veh (s)	21.8	11.8	3.4	20.7	8.6	2.4	19.3	17.7	3.9	27.2	4.2	5.1
Stop Delay (hr)	0.0	0.5	0.1	0.2	0.2	0.1	0.3	0.4	0.0	0.8	0.1	0.0
Stop Del/Veh (s)	19.5	7.3	2.2	18.7	5.1	2.0	16.8	12.4	3.2	20.1	0.2	2.4

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.7
Total Delay (hr)	4.7
Total Del/Veh (s)	9.1
Stop Delay (hr)	2.8
Stop Del/Veh (s)	5.3

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	4.6	2.5	4.7	0.0	0.9	1.2	0.5	0.8	1.0	0.5	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.0	2.1	3.2	0.0	0.1	0.0	0.0	0.5	0.3	0.4	0.7

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.2	0.0	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.2
Total Del/Veh (s)	4.6	6.3	3.2	5.0	1.5	2.2	3.9
Stop Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.0	0.2
Stop Del/Veh (s)	2.8	2.6	2.4	2.6	0.7	2.2	2.4

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.3	3.6	0.2	0.1
Total Delay (hr)	0.4	0.2	0.1	0.0	1.2	0.0	0.1	0.1	0.1	0.0	0.1	2.4
Total Del/Veh (s)	18.7	8.2	3.4	22.1	11.4	4.3	20.4	7.7	2.9	17.3	3.7	8.9
Stop Delay (hr)	0.3	0.1	0.1	0.0	0.7	0.0	0.1	0.1	0.1	0.0	0.1	1.6
Stop Del/Veh (s)	16.7	4.1	2.5	21.4	6.6	0.0	18.7	4.1	2.0	15.7	2.6	5.9

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	4.0	4.0	4.2	4.0	0.6	0.0	0.1	0.4	0.0	0.0	0.3
Total Delay (hr)	0.1	0.1	0.3	0.0	0.8	1.6	0.1	0.0	2.1	0.2	5.5
Total Del/Veh (s)	22.3	6.1	22.8	5.3	21.1	4.4	3.8	20.3	9.1	9.0	7.4
Stop Delay (hr)	0.1	0.1	0.3	0.0	0.7	0.6	0.1	0.0	0.9	0.1	2.9
Stop Del/Veh (s)	20.8	6.0	21.3	5.6	18.3	1.6	1.9	18.0	3.9	4.8	3.9

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Denied Del/Veh (s)	4.4	3.5	3.5	0.4	0.0	0.1	2.0	0.0	0.9
Total Delay (hr)	0.0	2.4	0.1	0.1	4.0	0.9	0.0	1.3	8.8
Total Del/Veh (s)	4.6	17.8	5.2	29.4	14.1	15.6	28.6	11.9	14.6
Stop Delay (hr)	0.0	1.6	0.0	0.1	2.2	0.6	0.0	0.8	5.4
Stop Del/Veh (s)	4.9	12.4	3.5	26.4	7.6	9.4	26.1	7.6	8.9

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBL	WBT	WBR	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.7	0.0	0.7	4.0	4.1	0.4
Total Delay (hr)	0.3	0.3	0.4	0.1	0.0	0.1	1.3
Total Del/Veh (s)	4.4	11.5	3.7	3.4	2.6	11.2	4.8
Stop Delay (hr)	0.2	0.2	0.1	0.0	0.0	0.1	0.6
Stop Del/Veh (s)	2.3	8.0	0.9	0.8	3.0	9.8	2.2

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.6	0.0	0.5	0.8	0.0	0.6	0.1	0.1	0.1	0.1	0.2
Total Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.5
Total Del/Veh (s)	3.9	1.4	1.2	2.9	1.5	0.7	9.0	1.5	7.4	3.2	2.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	1.8	0.4	0.3	1.2	0.0	0.1	7.6	2.1	5.8	3.2	1.0

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Denied Del/Veh (s)	0.7	0.0	0.1	0.0	0.1	0.2	3.8	3.9	0.4	4.0	0.4
Total Delay (hr)	0.3	0.6	0.3	1.4	0.8	0.4	0.0	0.2	0.0	0.1	4.2
Total Del/Veh (s)	23.7	7.6	24.0	9.5	9.1	17.1	3.2	20.6	8.9	3.8	10.3
Stop Delay (hr)	0.2	0.3	0.2	0.7	0.4	0.3	0.0	0.2	0.0	0.1	2.5
Stop Del/Veh (s)	20.9	4.2	20.3	4.8	4.3	12.6	2.6	18.8	6.5	3.3	6.3

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0
Total Delay (hr)	0.0	0.8	0.0	0.8	1.2	0.1	0.3	3.1
Total Del/Veh (s)	19.2	10.0	5.2	17.5	4.8	18.4	5.2	7.3
Stop Delay (hr)	0.0	0.4	0.0	0.7	0.5	0.1	0.3	1.9
Stop Del/Veh (s)	17.2	5.5	3.6	14.1	2.0	17.1	4.4	4.4

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.2	0.0	0.7	0.2	1.1
Total Del/Veh (s)	2.1	2.1	2.3	4.5	2.4
Stop Delay (hr)	0.0	0.0	0.0	0.1	0.2
Stop Del/Veh (s)	0.4	0.5	0.2	4.1	0.5

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
Denied Del/Veh (s)	0.2	0.0	0.1	0.5	0.0	3.7	0.2	0.5
Total Delay (hr)	0.0	1.8	0.0	1.6	1.5	1.0	0.2	6.2
Total Del/Veh (s)	19.1	13.7	5.4	25.1	6.5	18.7	6.2	11.9
Stop Delay (hr)	0.0	1.2	0.0	1.4	0.7	0.9	0.2	4.4
Stop Del/Veh (s)	19.3	8.7	3.8	21.4	3.2	16.6	6.0	8.4

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.0	0.0	0.1	0.2	0.1
Total Delay (hr)	0.0	0.1	0.1	0.1	0.1	0.0	0.4
Total Del/Veh (s)	3.9	3.5	3.7	1.7	8.2	2.3	3.3
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.3	2.7	2.0	0.4	2.5	1.8	1.5

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	3.4	0.2	0.3	0.0	0.2	0.1	0.2
Total Delay (hr)	0.1	0.6	1.6	0.2	0.4	0.0	2.9
Total Del/Veh (s)	72.0	9.2	14.6	2.1	2.1	0.2	6.6
Stop Delay (hr)	0.1	0.6	1.2	0.0	0.0	0.0	1.8
Stop Del/Veh (s)	70.4	8.2	10.4	0.0	0.1	0.1	4.2

69: I-5 Northbound Ramp Performance by movement

Movement	SET	SER	NWT	All
Denied Delay (hr)	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	0.3
Total Delay (hr)	0.0	0.0	0.7	0.7
Total Del/Veh (s)	1.0	1.0	2.2	2.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

71: Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	2.4	2.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

74: Performance by movement

Movement	EBT	EBR	All
Denied Delay (hr)	0.0	35.2	35.2
Denied Del/Veh (s)	0.0	135.6	132.2
Total Delay (hr)	0.4	22.1	22.5
Total Del/Veh (s)	53.6	88.7	87.8
Stop Delay (hr)	0.4	26.1	26.5
Stop Del/Veh (s)	64.0	104.6	103.5

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	4.0	4.0
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.7	0.7

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.5	0.1	0.0	0.6
Total Del/Veh (s)	1.7	0.4	0.4	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.0	0.6	0.3	0.4
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

110: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	2.1	2.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.7	0.7

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2	0.3
Total Del/Veh (s)	0.8	1.2	1.2	1.0
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.3	6.3	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	2.4	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.2	0.0	0.2
Total Del/Veh (s)	2.1	0.1	2.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.4	0.5
Total Del/Veh (s)	0.8	1.9	1.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.2	1.2
Total Del/Veh (s)	5.2	5.2
Stop Delay (hr)	0.5	0.5
Stop Del/Veh (s)	2.2	2.2

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	62.7	62.7
Denied Del/Veh (s)	0.0	0.0	0.0	388.0	122.8
Total Delay (hr)	0.3	0.2	0.8	14.8	16.1
Total Del/Veh (s)	3.1	1.9	4.9	112.3	33.2
Stop Delay (hr)	0.0	0.0	0.0	16.0	16.1
Stop Del/Veh (s)	0.3	0.2	0.2	121.4	33.2

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	0.9	0.6	2.3
Total Del/Veh (s)	3.6	5.5	1.6	3.0
Stop Delay (hr)	0.0	0.1	0.1	0.2
Stop Del/Veh (s)	0.2	0.6	0.1	0.3

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.0	0.0
Total Delay (hr)	1.7	0.7	2.8	5.2
Total Del/Veh (s)	7.5	6.6	4.0	5.0
Stop Delay (hr)	1.0	0.3	0.3	1.6
Stop Del/Veh (s)	4.3	3.0	0.4	1.5

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	4.5	2.8	0.9	8.1
Total Del/Veh (s)	9.8	4.8	7.9	7.1
Stop Delay (hr)	3.3	0.3	0.1	3.7
Stop Del/Veh (s)	7.2	0.5	1.0	3.2

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	18.7	11.7	30.4
Total Del/Veh (s)	40.9	17.0	26.5
Stop Delay (hr)	16.1	4.2	20.3
Stop Del/Veh (s)	35.2	6.1	17.7

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	5.1	0.3	5.4
Total Del/Veh (s)	11.7	1.6	8.6
Stop Delay (hr)	3.0	0.0	3.0
Stop Del/Veh (s)	7.0	0.0	4.8

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	10.9	10.9
Total Del/Veh (s)	25.1	25.1
Stop Delay (hr)	11.5	11.5
Stop Del/Veh (s)	26.6	26.6

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.2	2.2
Total Del/Veh (s)	13.2	13.2
Stop Delay (hr)	1.0	1.0
Stop Del/Veh (s)	5.7	5.7

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	11.9	0.7	12.6
Denied Del/Veh (s)	0.0	42.6	34.6	19.8
Total Delay (hr)	0.4	48.9	6.7	56.0
Total Del/Veh (s)	1.2	168.0	327.6	86.1
Stop Delay (hr)	0.1	49.0	6.8	55.9
Stop Del/Veh (s)	0.3	168.3	332.8	85.9

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1
Total Delay (hr)	0.1	0.0	7.4	7.5
Total Del/Veh (s)	0.7	0.3	17.9	12.4
Stop Delay (hr)	0.0	0.0	6.2	6.2
Stop Del/Veh (s)	0.0	0.0	15.1	10.3

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	5.9	10.6	16.5
Denied Del/Veh (s)	0.0	34.7	42.7	27.0
Total Delay (hr)	0.2	0.4	14.3	14.9
Total Del/Veh (s)	1.3	2.1	58.1	24.5
Stop Delay (hr)	0.0	0.1	16.1	16.3
Stop Del/Veh (s)	0.2	0.6	65.5	26.8

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.0	0.0
Total Delay (hr)	0.3	0.4	0.6	1.3
Total Del/Veh (s)	3.7	4.7	2.5	3.2
Stop Delay (hr)	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.4	0.2	0.2	0.2

Total Network Performance

Denied Delay (hr)	1734.8
Denied Del/Veh (s)	247.0
Total Delay (hr)	854.1
Total Del/Veh (s)	132.9
Stop Delay (hr)	708.7
Stop Del/Veh (s)	110.3

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	27
Average Queue (ft)	3
95th Queue (ft)	16
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB
Directions Served	LR
Maximum Queue (ft)	93
Average Queue (ft)	44
95th Queue (ft)	74
Link Distance (ft)	104
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	NB	NB	SB	SB	SB	SB
Directions Served	L	TR	R	T	T	T	T	T	R
Maximum Queue (ft)	167	300	270	105	116	51	375	418	304
Average Queue (ft)	12	185	143	46	46	10	163	249	19
95th Queue (ft)	82	279	260	88	94	33	313	389	127
Link Distance (ft)	365	365		839	839	641	641	641	
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)			170						225
Storage Blk Time (%)		10	1					12	
Queuing Penalty (veh)		53	3					5	

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	LT	R	T	T	R	T	T	R
Maximum Queue (ft)	114	67	57	56	30	58	72	127
Average Queue (ft)	54	24	9	12	2	11	12	13
95th Queue (ft)	92	56	37	37	14	40	46	66
Link Distance (ft)	182	182	452	452		839	839	839
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	200							
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	10	72
Average Queue (ft)	0	34
95th Queue (ft)	5	58
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	48	29
Average Queue (ft)	18	2
95th Queue (ft)	41	14
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	62	243	298	228	204	229	268	337	158	57	353	446
Average Queue (ft)	20	133	194	76	111	123	90	212	67	11	211	172
95th Queue (ft)	51	202	276	195	176	188	192	324	127	43	340	374
Link Distance (ft)		289	289				882	882				4516
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	2									
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		1	22		0	1	0				10	0
Queuing Penalty (veh)		0	38		0	3	0				15	1

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	NB	SB	SB	SB	SB	SB	B32	B32
Directions Served	T	R	L	L	T	T	R	T	T
Maximum Queue (ft)	373	98	324	368	428	337	146	262	247
Average Queue (ft)	66	3	218	262	236	153	17	60	47
95th Queue (ft)	265	50	374	411	476	297	69	285	241
Link Distance (ft)	4516				404	404		456	456
Upstream Blk Time (%)					15	0		1	0
Queuing Penalty (veh)					65	0		4	0
Storage Bay Dist (ft)		160	285	285			130		
Storage Blk Time (%)	1		1	27	2	9			
Queuing Penalty (veh)	3		3	58	7	4			

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	T	T	R	L	T	R	L	TR	L	LT	R
Maximum Queue (ft)	45	40	42	20	56	90	134	36	117	134	171	19
Average Queue (ft)	13	13	7	2	18	30	59	5	52	27	86	4
95th Queue (ft)	37	35	27	12	47	69	103	22	99	83	146	15
Link Distance (ft)		1136	1136			3005	3005		546		1094	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	180			140	250			150		135		135
Storage Blk Time (%)									0	0	1	
Queuing Penalty (veh)									0	0	2	

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	245	241	164	241	312	225	1908	1924	540	401
Average Queue (ft)	108	113	67	144	192	195	929	703	317	137
95th Queue (ft)	246	238	136	233	279	301	1904	1842	607	367
Link Distance (ft)	176	176	214	214	214		2327	2327		
Upstream Blk Time (%)	10	9	0	1	3		6	6		
Queuing Penalty (veh)	42	38	0	5	24		0	0		
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						3	80	10	5	1
Queuing Penalty (veh)						7	200	66	17	2

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	R	L	L	R
Maximum Queue (ft)	161	169	608	770	784	132	182	194
Average Queue (ft)	64	86	138	295	219	68	92	112
95th Queue (ft)	135	154	461	780	781	121	150	185
Link Distance (ft)	200	200	748	748	748		248	
Upstream Blk Time (%)	0	0	0	8	6		0	
Queuing Penalty (veh)	0	0	0	77	59		0	
Storage Bay Dist (ft)						200		200
Storage Blk Time (%)							0	0
Queuing Penalty (veh)							0	2

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	412	455	495	761	734	716	294	222	310	373	457	523
Average Queue (ft)	338	436	480	675	528	408	97	115	165	217	263	302
95th Queue (ft)	442	494	547	879	886	756	257	206	243	319	388	468
Link Distance (ft)				686	686	686				916	916	916
Upstream Blk Time (%)				59	12	1						
Queuing Penalty (veh)				355	73	5						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	3	55	80	72		19		0	1	4		36
Queuing Penalty (veh)	9	170	246	443		42		0	3	9		73

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	152	175	217	170	139	157	330	375	894	1528	2044
Average Queue (ft)	135	37	99	119	99	27	63	285	317	441	136	1552
95th Queue (ft)	291	103	164	187	166	98	125	401	453	1151	862	2071
Link Distance (ft)				1093	1093	1093	1093			2194	2194	2194
Upstream Blk Time (%)												1
Queuing Penalty (veh)												5
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)	0		0	0				34	51	0		
Queuing Penalty (veh)	0		0	0				8	12	2		

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB	B52	B52	B52
Directions Served	R	T	T	T
Maximum Queue (ft)	390	220	32	7
Average Queue (ft)	390	16	1	0
95th Queue (ft)	390	110	22	5
Link Distance (ft)		1807	1807	1807
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	300			
Storage Blk Time (%)	26			
Queuing Penalty (veh)	6			

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	
Directions Served	L	L	T	T	R	L	L	T	T	T		R	L
Maximum Queue (ft)	38	76	84	64	57	32	97	149	124	67	69	26	
Average Queue (ft)	6	25	20	21	10	4	36	62	53	10	14	2	
95th Queue (ft)	24	61	56	53	35	20	77	118	103	42	44	13	
Link Distance (ft)			1420	1420	1420			587	587	587			
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)	200	200				200	200				200	200	
Storage Blk Time (%)													
Queuing Penalty (veh)													

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB	SB
Directions Served	L	T	T	T	R	L	L	T	T	T	R
Maximum Queue (ft)	61	187	156	166	101	26	54	74	62	29	42
Average Queue (ft)	19	84	73	71	43	2	11	28	16	3	8
95th Queue (ft)	50	156	139	141	87	12	36	66	45	15	27
Link Distance (ft)		1255	1255	1255				709	709	709	
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				200	200	200				200
Storage Blk Time (%)		0		0							
Queuing Penalty (veh)		0		0							

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	99	84	147	170	170	580	433	469	190	135
Average Queue (ft)	47	36	63	58	49	548	89	163	86	69
95th Queue (ft)	86	77	112	121	121	570	260	330	145	116
Link Distance (ft)	231	231	231	212	212	212	1189	1189		
Upstream Blk Time (%)				0	0	92	0	0		
Queuing Penalty (veh)				0	0	804	0	0		
Storage Bay Dist (ft)									420	420
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	51	74	99	152	113	102	122	136	156	115
Average Queue (ft)	11	24	37	71	48	40	54	70	78	37
95th Queue (ft)	37	60	76	124	94	83	97	115	129	83
Link Distance (ft)	304	304	304	186	186	186	1196	1196		
Upstream Blk Time (%)				0						
Queuing Penalty (veh)				0						
Storage Bay Dist (ft)									400	400
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	T	R	L	L	T	T	TR	L
Maximum Queue (ft)	97	121	189	198	234	263	229	300	1412	1425	1428	1060
Average Queue (ft)	44	71	102	126	137	95	84	176	1001	1394	1396	1017
95th Queue (ft)	86	113	173	188	207	193	186	350	1785	1414	1413	1145
Link Distance (ft)			1336	1336	1336				1378	1378	1378	1022
Upstream Blk Time (%)									4	58	99	65
Queuing Penalty (veh)									0	0	0	0
Storage Bay Dist (ft)	250	250				250	200	200				
Storage Blk Time (%)						1	1	3	47			
Queuing Penalty (veh)						1	3	15	254			

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	T	R	L	T	T	R	R	
Maximum Queue (ft)	1069	225	112	504	548	225	212	
Average Queue (ft)	971	54	11	321	518	224	206	
95th Queue (ft)	1372	202	65	544	534	230	227	
Link Distance (ft)	1022			498	498			
Upstream Blk Time (%)	82			0	84			
Queuing Penalty (veh)	0			0	0			
Storage Bay Dist (ft)		200	200			200	200	
Storage Blk Time (%)	4	2		14	6	65	47	
Queuing Penalty (veh)	10	1		2	47	229	163	

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	SB	SB	SB
Directions Served	L	R	T	T	R	T	L	T	T
Maximum Queue (ft)	347	418	219	219	208	6	164	233	301
Average Queue (ft)	244	91	100	114	78	0	83	123	180
95th Queue (ft)	363	295	189	198	165	4	141	205	261
Link Distance (ft)		1114	1807	1807	1807	2194		2777	2777
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)	275						190		
Storage Blk Time (%)	7	0					0	1	
Queuing Penalty (veh)	14	0					0	1	

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	31	165	88	61	92	60	82	69	59	52	141	20
Average Queue (ft)	4	64	26	25	29	20	36	34	22	19	65	2
95th Queue (ft)	20	121	59	51	69	43	67	64	53	45	118	11
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		0					0	0			0	
Queuing Penalty (veh)		1					0	0			0	

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	13
Average Queue (ft)	1
95th Queue (ft)	7
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	60	28	24	5
Average Queue (ft)	30	3	1	0
95th Queue (ft)	49	17	12	3
Link Distance (ft)	942	1010	2205	2349
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB	SB
Directions Served	LT	TR	L	R
Maximum Queue (ft)	41	70	60	28
Average Queue (ft)	17	35	30	4
95th Queue (ft)	43	55	49	20
Link Distance (ft)	956	1310	452	452
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB	NB	SB	SB
Directions Served	L	TR	L	T	L	T	R	L	TR
Maximum Queue (ft)	76	105	27	204	52	39	59	32	56
Average Queue (ft)	22	37	2	87	15	10	19	2	17
95th Queue (ft)	56	77	13	162	41	31	44	14	40
Link Distance (ft)	467	467	1484	1484		2349			1260
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)					200		200	200	
Storage Blk Time (%)					0				
Queuing Penalty (veh)					0				

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	WB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	L	R	L	R	L	T	T	TR	L	T	T	TR
Maximum Queue (ft)	52	68	60	28	122	114	146	213	28	74	157	230
Average Queue (ft)	18	26	30	4	55	22	33	62	3	21	39	91
95th Queue (ft)	49	50	58	19	100	67	91	145	16	52	99	175
Link Distance (ft)						641	641	641		1168	1168	1168
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200	100	200	100	200				200			
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	R	L	T	R	L	T	T	TR	L	T	T	TR
Maximum Queue (ft)	33	224	296	76	50	191	267	318	40	85	97	134
Average Queue (ft)	4	159	28	18	12	79	86	146	4	23	44	47
95th Queue (ft)	22	237	182	51	38	152	177	259	23	62	86	95
Link Distance (ft)			480			1168	1168	1168		1255	1255	1255
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	100	200		100	200				200			
Storage Blk Time (%)		4		0		0						
Queuing Penalty (veh)		2		0		0						

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	WB	NB	SB
Directions Served	T	T	T	L	T	T	T	R	R	L
Maximum Queue (ft)	71	51	69	77	53	42	46	55	39	48
Average Queue (ft)	21	9	23	31	8	4	5	7	6	19
95th Queue (ft)	58	34	56	61	33	20	23	28	25	42
Link Distance (ft)	788	788	788		1776	1776	1776			
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)				200			250	100	100	
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	EB	WB	NB	NB	SB	SB
Directions Served	L	R	L	L	TR	L	TR
Maximum Queue (ft)	42	2	55	62	32	30	33
Average Queue (ft)	7	0	12	24	11	8	11
95th Queue (ft)	27	1	38	49	28	29	34
Link Distance (ft)				389	389	269	269
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	100	250	200				
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	SB
Directions Served	L	T	T	T	L	T	T	T	R	T	R	L
Maximum Queue (ft)	92	80	64	80	83	129	122	160	207	121	56	78
Average Queue (ft)	32	22	12	29	30	46	39	49	73	47	5	28
95th Queue (ft)	74	62	40	66	69	103	93	119	157	99	29	64
Link Distance (ft)		1776	1776	1776		1046	1046	1046		1161		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				200				250		100	100
Storage Blk Time (%)									0	1	0	0
Queuing Penalty (veh)									0	0	0	0

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	37	70
Average Queue (ft)	6	27
95th Queue (ft)	25	56
Link Distance (ft)	232	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		0
Queuing Penalty (veh)		0

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	T	L	R
Maximum Queue (ft)	33	69	74	135	32	179	140	145	202	50	120
Average Queue (ft)	3	23	20	50	3	84	44	35	74	8	53
95th Queue (ft)	20	61	57	100	17	152	102	92	160	31	95
Link Distance (ft)		1046	1046	1046			707	707	707	842	842
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				150	250					
Storage Blk Time (%)					0	0					
Queuing Penalty (veh)					0	0					

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	89
Average Queue (ft)	42
95th Queue (ft)	74
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	
Directions Served	U	T	T	T	R	L	L	T	T	T	L	R	
Maximum Queue (ft)	32	86	102	227	39	134	170	183	153	159	158	97	
Average Queue (ft)	5	24	32	107	5	49	89	69	52	67	83	21	
95th Queue (ft)	21	65	79	182	25	105	144	143	111	129	139	64	
Link Distance (ft)		972	972	972				967	967	967		828	
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)	200				250	430	430				150		
Storage Blk Time (%)					0							0	0
Queuing Penalty (veh)					0							0	0

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	91
Average Queue (ft)	26
95th Queue (ft)	62
Link Distance (ft)	828
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	63	49	52	58
Average Queue (ft)	36	25	22	29
95th Queue (ft)	55	44	49	48
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	EB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	TR
Maximum Queue (ft)	29	152	241	196	50	18
Average Queue (ft)	5	70	107	7	4	1
95th Queue (ft)	22	125	192	81	31	12
Link Distance (ft)		680		456	678	678
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	100		200			
Storage Blk Time (%)		3	2			
Queuing Penalty (veh)		0	5			

Intersection: 69: I-5 Northbound Ramp

Movement	NW	NW
Directions Served	T	T
Maximum Queue (ft)	16	63
Average Queue (ft)	1	6
95th Queue (ft)	8	34
Link Distance (ft)	1092	1092
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 71:

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	23	39
Average Queue (ft)	2	9
95th Queue (ft)	14	31
Link Distance (ft)	327	327
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	753
Average Queue (ft)	723
95th Queue (ft)	747
Link Distance (ft)	567
Upstream Blk Time (%)	99
Queuing Penalty (veh)	1856
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	28	65
Average Queue (ft)	2	6
95th Queue (ft)	13	32
Link Distance (ft)	1014	1014
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 110:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	16	27
Average Queue (ft)	1	2
95th Queue (ft)	9	12
Link Distance (ft)	479	479
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	31
Average Queue (ft)	1
95th Queue (ft)	12
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	113	126
Average Queue (ft)	59	82
95th Queue (ft)	99	116
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	WB	WB	WB	SB	SB
Directions Served	T	T	T	R	L	R
Maximum Queue (ft)	22	12	12	118	373	359
Average Queue (ft)	1	1	0	10	338	323
95th Queue (ft)	11	7	6	64	358	371
Link Distance (ft)	3005	289	289	289	316	316
Upstream Blk Time (%)					99	93
Queuing Penalty (veh)					0	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	47	185
Average Queue (ft)	4	12
95th Queue (ft)	28	103
Link Distance (ft)	882	882
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1003: Del Paso Road

Movement	EB	EB	WB	WB	WB
Directions Served	T	TR	T	T	T
Maximum Queue (ft)	164	182	35	68	94
Average Queue (ft)	24	26	3	19	23
95th Queue (ft)	199	209	40	101	113
Link Distance (ft)	748	748	176	176	176
Upstream Blk Time (%)	0	0	0	0	0
Queuing Penalty (veh)	2	2	1	3	3
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB	WB
Directions Served	T	T	T	T	TR
Maximum Queue (ft)	178	194	156	95	159
Average Queue (ft)	71	69	62	3	6
95th Queue (ft)	240	245	228	49	69
Link Distance (ft)	214	214	214	370	370
Upstream Blk Time (%)	11	6	2		
Queuing Penalty (veh)	68	33	12		
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	538	482	457	306	499	647	415
Average Queue (ft)	295	228	194	22	140	197	164
95th Queue (ft)	686	570	527	140	335	398	298
Link Distance (ft)	370	370	370	686	686	686	686
Upstream Blk Time (%)	36	15	10		0	0	
Queuing Penalty (veh)	219	87	59		0	0	
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement	NB	NB
Directions Served	R	R
Maximum Queue (ft)	195	237
Average Queue (ft)	83	97
95th Queue (ft)	201	220
Link Distance (ft)	248	248
Upstream Blk Time (%)		0
Queuing Penalty (veh)		1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	255	242
Average Queue (ft)	198	191
95th Queue (ft)	281	264
Link Distance (ft)	152	152
Upstream Blk Time (%)	71	72
Queuing Penalty (veh)	618	633
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	253
Average Queue (ft)	115
95th Queue (ft)	208
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	WB	WB	WB	WB
Directions Served	T	T	T	R
Maximum Queue (ft)	671	1352	1374	225
Average Queue (ft)	94	516	1348	200
95th Queue (ft)	373	1352	1360	315
Link Distance (ft)	1336	1336	1336	
Upstream Blk Time (%)		0	31	
Queuing Penalty (veh)		2	291	
Storage Bay Dist (ft)				200
Storage Blk Time (%)			95	0
Queuing Penalty (veh)			176	2

Intersection: 1302: West Elkhorn Boulevard

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	288	268
Average Queue (ft)	130	229
95th Queue (ft)	327	258
Link Distance (ft)	231	231
Upstream Blk Time (%)	1	5
Queuing Penalty (veh)	14	51
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1401: West Elkhorn Boulevard

Movement	WB	WB	WB
Directions Served	T	T	R
Maximum Queue (ft)	221	486	225
Average Queue (ft)	11	456	225
95th Queue (ft)	100	480	226
Link Distance (ft)	277	277	
Upstream Blk Time (%)	0	98	
Queuing Penalty (veh)	0	1020	
Storage Bay Dist (ft)			200
Storage Blk Time (%)		2	99
Queuing Penalty (veh)		41	408

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 9424

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	4:45	4:45	4:45	4:45	4:45	4:45
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	23927	24119	23938	23971	23861	23957
Vehs Exited	23607	23628	23574	23764	23489	23611
Starting Vehs	1141	1168	1248	1214	1203	1182
Ending Vehs	1461	1659	1612	1421	1575	1544
Travel Distance (mi)	23106	23025	23019	23228	22891	23054
Travel Time (hr)	1773.5	1951.9	1934.2	1893.2	1990.6	1908.7
Total Delay (hr)	1130.6	1310.7	1292.3	1245.6	1352.7	1266.4
Total Stops	41966	46023	46085	44817	44731	44724
Fuel Used (gal)	1068.2	1104.4	1100.6	1099.5	1112.1	1097.0

Interval #0 Information Seeding

Start Time	4:45
End Time	5:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	23927	24119	23938	23971	23861	23957
Vehs Exited	23607	23628	23574	23764	23489	23611
Starting Vehs	1141	1168	1248	1214	1203	1182
Ending Vehs	1461	1659	1612	1421	1575	1544
Travel Distance (mi)	23106	23025	23019	23228	22891	23054
Travel Time (hr)	1773.5	1951.9	1934.2	1893.2	1990.6	1908.7
Total Delay (hr)	1130.6	1310.7	1292.3	1245.6	1352.7	1266.4
Total Stops	41966	46023	46085	44817	44731	44724
Fuel Used (gal)	1068.2	1104.4	1100.6	1099.5	1112.1	1097.0

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.4	0.0	0.0	0.4
Denied Del/Veh (s)	0.8	2.7	0.0	0.0	1.2
Total Delay (hr)	0.0	0.2	0.0	0.0	0.2
Total Del/Veh (s)	9.0	1.2	0.1	0.3	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	7.5	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.3	0.2	0.0	0.1
Total Delay (hr)	0.2	0.1	0.0	0.1	0.0	0.3
Total Del/Veh (s)	5.5	2.7	2.1	1.0	0.4	2.4
Stop Delay (hr)	0.2	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	4.3	3.0	0.4	0.0	0.0	1.5

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	90.6	12.1	102.9
Denied Del/Veh (s)	0.0	0.0	0.5	0.0	0.0	201.1	273.2	117.8
Total Delay (hr)	0.0	0.0	2.3	0.5	0.0	33.2	2.2	38.2
Total Del/Veh (s)	15.2	0.9	8.4	9.5	1.9	80.2	55.3	45.9
Stop Delay (hr)	0.0	0.0	1.5	0.3	0.0	28.4	1.7	31.9
Stop Del/Veh (s)	14.2	0.3	5.4	6.5	0.2	68.6	43.4	38.4

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.8	0.0	0.1	0.1
Total Delay (hr)	0.2	0.0	0.0	0.1	0.0	0.1	5.3	5.8
Total Del/Veh (s)	4.8	6.1	2.6	4.4	1.7	6.7	16.6	13.7
Stop Delay (hr)	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.5
Stop Del/Veh (s)	3.3	2.5	2.4	2.3	1.6	2.7	0.6	1.1

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)	1.4	0.8	2.6	0.8	4.5	2.9	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.7	0.0	0.0	0.0	2.4	1.9	0.9

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Total Del/Veh (s)	4.6	0.6	2.3	0.7	0.3	1.5	1.1	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	3.0	0.0	1.7	0.0	0.0	0.4	0.0	0.3

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.7	3.0	0.5
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3	1.7	54.7	54.0	58.1
Total Delay (hr)	0.6	3.5	0.2	7.3	3.6	0.5	1.4	6.2	0.7	25.6	1.6	0.1
Total Del/Veh (s)	49.7	36.8	8.2	57.7	26.8	7.7	47.4	51.0	5.4	177.5	29.5	6.4
Stop Delay (hr)	0.5	3.1	0.1	6.5	2.8	0.4	1.2	4.8	0.0	24.2	1.3	0.0
Stop Del/Veh (s)	47.6	31.9	7.3	50.9	20.4	6.0	40.7	39.8	0.1	168.1	24.5	6.0

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	11.4
Denied Del/Veh (s)	12.3
Total Delay (hr)	51.3
Total Del/Veh (s)	54.0
Stop Delay (hr)	45.1
Stop Del/Veh (s)	47.5

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	2.4	0.0	0.0	0.0	3.5	0.1	0.3	0.1
Total Delay (hr)	0.3	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.7
Total Del/Veh (s)	5.6	1.8	14.8	5.0	1.7	7.0	2.6	12.4	6.5
Stop Delay (hr)	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.5
Stop Del/Veh (s)	3.5	1.3	11.7	2.7	1.1	6.2	2.9	11.0	4.6

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.2	0.3
Denied Del/Veh (s)	0.0	0.0	0.7	0.6	0.3
Total Delay (hr)	10.2	1.6	8.1	25.5	45.4
Total Del/Veh (s)	44.9	5.1	73.8	64.1	43.0
Stop Delay (hr)	9.0	0.8	6.8	19.1	35.7
Stop Del/Veh (s)	39.6	2.5	62.0	48.0	33.8

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	5.2	1.9	0.9	6.7	1.7	16.5
Total Del/Veh (s)	28.1	8.3	4.4	53.4	18.2	19.6
Stop Delay (hr)	4.9	1.1	0.0	6.3	1.6	13.8
Stop Del/Veh (s)	26.2	4.7	0.0	49.8	16.4	16.4

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.6	2.1	2.5	0.2	0.3	0.0	0.0	0.1
Total Delay (hr)	54.8	41.4	2.4	7.9	16.9	3.8	19.4	8.0	2.5	12.1	2.0	0.2
Total Del/Veh (s)	301.4	108.3	54.0	87.1	50.6	32.5	222.2	50.0	23.8	116.0	30.5	3.5
Stop Delay (hr)	52.8	34.6	1.8	7.2	13.0	2.6	18.3	5.9	2.0	11.2	1.6	0.0
Stop Del/Veh (s)	290.0	90.5	40.7	79.5	38.9	22.1	209.7	37.3	19.4	107.7	25.6	0.1

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.9
Denied Del/Veh (s)	0.5
Total Delay (hr)	171.4
Total Del/Veh (s)	98.5
Stop Delay (hr)	151.1
Stop Del/Veh (s)	86.9

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	0.5	0.0	0.0	0.0
Denied Del/Veh (s)	1.5	0.0	0.1	0.7	0.0	0.8	9.4	11.1	10.7	2.9	0.2	2.5
Total Delay (hr)	0.2	1.4	0.5	0.7	1.9	0.0	22.3	2.2	0.4	0.3	5.1	0.0
Total Del/Veh (s)	36.6	21.0	7.8	38.0	14.8	4.4	266.1	16.0	8.4	41.3	20.1	3.4
Stop Delay (hr)	0.2	1.1	0.4	0.6	1.3	0.0	21.5	1.2	0.1	0.3	3.3	0.0
Stop Del/Veh (s)	33.6	15.9	6.2	35.3	10.6	4.1	257.3	8.7	2.9	36.5	13.1	2.6

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	2.9
Denied Del/Veh (s)	3.6
Total Delay (hr)	35.0
Total Del/Veh (s)	42.5
Stop Delay (hr)	30.1
Stop Del/Veh (s)	36.6

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	55.2	305.3	360.5
Denied Del/Veh (s)	0.0	0.0	547.8	534.3	284.0
Total Delay (hr)	15.9	1.5	4.3	11.8	33.5
Total Del/Veh (s)	55.7	4.8	54.0	27.0	29.9
Stop Delay (hr)	13.2	0.7	3.5	4.1	21.6
Stop Del/Veh (s)	46.2	2.3	44.2	9.4	19.2

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.4	3.0	0.5
Total Delay (hr)	2.3	1.8	0.7	1.6	6.4
Total Del/Veh (s)	8.4	8.4	12.3	15.2	9.8
Stop Delay (hr)	1.0	0.9	0.6	1.2	3.7
Stop Del/Veh (s)	3.5	4.3	10.0	12.0	5.7

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	0.3	0.6	1.0	2.8	3.7	0.2	3.5
Total Delay (hr)	13.8	16.2	1.3	5.0	12.0	0.2	3.9	4.0	3.2	0.2	1.8	0.9
Total Del/Veh (s)	75.8	36.3	13.0	86.5	49.3	54.7	57.9	34.7	26.7	63.9	42.3	14.3
Stop Delay (hr)	11.5	10.9	0.5	4.6	9.7	0.2	3.4	2.6	2.2	0.2	1.5	0.8
Stop Del/Veh (s)	63.3	24.4	5.4	80.5	40.1	47.3	50.7	22.6	18.3	60.1	35.3	13.1

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.9
Denied Del/Veh (s)	0.7
Total Delay (hr)	62.4
Total Del/Veh (s)	43.4
Stop Delay (hr)	48.2
Stop Del/Veh (s)	33.5

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.1	0.0	0.3
Denied Del/Veh (s)	3.4	0.6	0.0	0.0	1.4	0.2	0.4
Total Delay (hr)	1.1	0.2	3.9	0.8	1.2	1.1	8.3
Total Del/Veh (s)	19.9	7.9	11.5	7.5	31.1	6.4	11.2
Stop Delay (hr)	1.0	0.2	1.9	0.3	1.0	0.4	4.8
Stop Del/Veh (s)	17.3	7.4	5.5	3.4	26.7	2.3	6.5

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	4.2	0.3	3.7	3.4	0.3	0.2	3.7	0.2	3.7	0.0	0.0	0.0
Total Delay (hr)	0.0	0.5	0.0	0.4	0.6	0.1	0.5	0.3	0.1	0.7	1.0	0.0
Total Del/Veh (s)	21.6	12.0	3.3	22.0	10.0	2.5	17.3	15.8	3.5	22.8	6.1	6.8
Stop Delay (hr)	0.0	0.3	0.0	0.4	0.3	0.1	0.4	0.2	0.1	0.5	0.3	0.0
Stop Del/Veh (s)	19.4	8.2	2.9	19.3	5.6	1.9	14.9	11.1	2.5	16.8	2.0	2.8

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.3
Denied Del/Veh (s)	0.8
Total Delay (hr)	4.3
Total Del/Veh (s)	9.8
Stop Delay (hr)	2.7
Stop Del/Veh (s)	6.2

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBT	EBR	WBL	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9
Total Del/Veh (s)	8.5	11.2	6.0	6.5	1.7	2.0	0.6	2.7	4.6	3.2	5.5
Stop Delay (hr)	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Stop Del/Veh (s)	4.9	4.6	3.7	5.0	0.5	0.0	0.0	0.5	0.4	0.3	2.3

19: Bayou Road South & Metro Air Parkway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.4
Total Del/Veh (s)	4.9	6.4	5.4	2.9	5.2	1.7	2.3	4.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2
Stop Del/Veh (s)	2.7	2.7	2.5	2.4	2.7	1.0	2.2	2.5

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1
Total Delay (hr)	0.5	1.8	0.0	0.7	1.0	0.0	0.9	0.0	0.0	0.4	0.1	5.4
Total Del/Veh (s)	26.6	20.0	10.5	25.2	5.9	3.9	26.3	10.3	2.8	25.2	7.6	14.3
Stop Delay (hr)	0.4	1.2	0.0	0.6	0.7	0.0	0.8	0.0	0.0	0.3	0.1	4.1
Stop Del/Veh (s)	24.2	13.2	7.0	22.9	4.0	0.0	23.3	6.1	1.9	17.6	5.7	10.8

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Denied Del/Veh (s)	3.7	0.3	3.9	3.9	3.9	0.7	0.0	0.1	0.0	0.1	0.0	0.5
Total Delay (hr)	0.7	0.0	0.7	1.1	0.0	0.6	2.9	0.1	0.0	23.6	1.2	31.1
Total Del/Veh (s)	24.0	29.9	18.6	31.3	6.4	35.4	8.9	8.1	29.6	60.4	96.7	35.5
Stop Delay (hr)	0.6	0.0	0.6	1.0	0.0	0.6	1.8	0.1	0.0	18.7	1.1	24.5
Stop Del/Veh (s)	21.5	25.6	17.8	28.5	6.4	32.7	5.3	5.9	24.8	47.9	86.4	28.1

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBT	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Denied Del/Veh (s)	0.1	4.2	3.8	3.8	0.2	0.0	0.1	0.3	0.0	0.4
Total Delay (hr)	0.0	0.0	1.7	0.0	0.1	3.5	1.0	1.0	3.4	10.9
Total Del/Veh (s)	32.5	7.6	24.9	5.7	28.3	13.4	14.1	35.5	10.5	13.9
Stop Delay (hr)	0.0	0.0	1.4	0.0	0.1	1.7	0.5	0.8	1.2	5.8
Stop Del/Veh (s)	27.8	7.7	20.9	4.8	23.8	6.3	7.2	29.8	3.7	7.5

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBL	WBT	WBR	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Denied Del/Veh (s)	0.0	0.4	0.0	0.4	4.0	3.9	0.8
Total Delay (hr)	1.1	0.4	1.2	0.1	0.1	1.1	4.0
Total Del/Veh (s)	7.3	26.8	8.5	5.4	4.8	21.9	10.1
Stop Delay (hr)	0.6	0.3	0.4	0.0	0.1	1.0	2.5
Stop Del/Veh (s)	4.1	21.4	2.9	1.5	4.8	19.2	6.3

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.8	0.0	1.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.3	0.0	0.0	0.4	0.0	0.1	0.1	0.1	0.0	0.0	1.0
Total Del/Veh (s)	5.2	2.1	1.5	4.6	3.1	2.1	9.6	3.2	9.4	14.2	4.2	3.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.4
Stop Del/Veh (s)	2.9	0.3	0.3	2.2	0.1	0.1	8.5	3.0	7.7	10.9	3.7	1.1

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.2	0.2	1.6
Denied Del/Veh (s)	0.5	0.0	0.1	0.0	0.0	0.3	3.7	10.4	8.4	9.6	2.7
Total Delay (hr)	1.4	2.9	0.2	2.8	0.2	0.3	0.1	3.3	0.5	0.2	12.0
Total Del/Veh (s)	37.2	14.4	36.5	19.6	8.0	35.8	8.1	30.3	18.6	10.4	20.3
Stop Delay (hr)	1.2	1.9	0.2	1.9	0.1	0.3	0.1	2.8	0.4	0.1	9.1
Stop Del/Veh (s)	32.3	9.0	32.2	13.4	4.6	30.9	7.4	26.4	14.5	8.4	15.4

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.1	0.0	0.0	0.2	0.0
Total Delay (hr)	0.0	4.3	0.0	0.6	1.0	0.9	6.8
Total Del/Veh (s)	24.2	13.9	7.8	27.1	5.9	11.3	11.7
Stop Delay (hr)	0.0	2.0	0.0	0.5	0.5	0.8	3.9
Stop Del/Veh (s)	21.9	6.5	2.1	24.7	3.1	10.1	6.7

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	1.1	0.2	0.3	0.1	1.7
Total Del/Veh (s)	3.3	4.4	1.6	8.2	3.0
Stop Delay (hr)	0.1	0.0	0.0	0.1	0.2
Stop Del/Veh (s)	0.2	0.2	0.1	8.1	0.4

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.4	0.0	3.5	0.2	0.2
Total Delay (hr)	0.0	8.3	0.0	9.3	0.9	0.7	1.3	20.5
Total Del/Veh (s)	42.6	24.0	14.2	53.6	4.9	31.0	13.3	24.9
Stop Delay (hr)	0.0	5.4	0.0	7.9	0.5	0.6	1.2	15.6
Stop Del/Veh (s)	40.5	15.7	7.9	45.2	2.7	29.0	12.5	19.0

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.2	0.1	0.0
Total Delay (hr)	0.0	0.1	0.1	0.2	0.2	0.0	0.6
Total Del/Veh (s)	4.7	3.5	4.3	1.5	8.7	2.4	3.0
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.1	0.0	0.2
Stop Del/Veh (s)	3.0	2.7	2.0	0.2	2.5	1.8	1.1

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	52.9	0.0	0.0	0.0	0.0	52.9
Denied Del/Veh (s)	488.3	0.0	0.0	0.2	0.1	122.5
Total Delay (hr)	23.9	0.4	0.2	2.5	0.0	26.9
Total Del/Veh (s)	319.4	6.6	1.3	19.6	0.1	67.3
Stop Delay (hr)	24.9	0.2	0.0	1.8	0.0	26.9
Stop Del/Veh (s)	332.6	3.9	0.0	14.5	0.0	67.3

69: I-5 Northbound Ramp Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	0.3
Total Delay (hr)	0.0	0.0	0.5	0.5
Total Del/Veh (s)	1.0	1.0	1.7	1.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

71: Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	2.1	2.1
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

74: Performance by movement

Movement	EBT	EBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	2.2	2.2
Total Del/Veh (s)	0.8	12.2	11.7
Stop Delay (hr)	0.0	1.4	1.4
Stop Del/Veh (s)	0.0	7.7	7.4

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.2	0.2
Total Del/Veh (s)	5.4	5.4
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	1.2	1.2

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.2	0.0	0.0	0.3
Total Del/Veh (s)	1.0	0.3	0.3	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.6	0.3	0.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

110: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.0	0.0
Total Del/Veh (s)	2.3	2.3
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.6	0.6

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1	0.2
Total Del/Veh (s)	0.5	1.0	1.1	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.2	4.3	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.8	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.6	0.2	1.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.6	0.7
Total Del/Veh (s)	0.7	2.0	1.8
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.5	2.5
Total Del/Veh (s)	7.8	7.8
Stop Delay (hr)	1.2	1.2
Stop Del/Veh (s)	3.7	3.7

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.1
Total Delay (hr)	0.2	0.1	0.5	0.6	1.3
Total Del/Veh (s)	2.4	2.0	4.7	9.3	4.7
Stop Delay (hr)	0.0	0.0	0.0	0.4	0.5
Stop Del/Veh (s)	0.2	0.2	0.1	7.2	1.7

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	2.5	1.1	0.4	4.0
Total Del/Veh (s)	12.8	6.0	1.3	5.7
Stop Delay (hr)	1.8	0.2	0.1	2.1
Stop Del/Veh (s)	9.4	1.3	0.2	3.0

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	1.0	0.2	0.0	1.3
Denied Del/Veh (s)	4.4	3.0	0.0	1.7
Total Delay (hr)	11.2	2.8	0.5	14.6
Total Del/Veh (s)	47.4	36.0	1.3	19.7
Stop Delay (hr)	9.9	2.4	0.0	12.3
Stop Del/Veh (s)	41.6	30.3	0.1	16.5

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	8.3	0.8	0.8	9.9
Total Del/Veh (s)	13.7	2.4	5.3	9.1
Stop Delay (hr)	5.8	0.1	0.1	6.0
Stop Del/Veh (s)	9.6	0.2	0.5	5.5

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	33.1	3.9	37.0
Total Del/Veh (s)	55.1	8.2	34.2
Stop Delay (hr)	28.0	0.5	28.5
Stop Del/Veh (s)	46.6	1.1	26.4

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.3	3.3	3.7
Total Del/Veh (s)	1.7	15.1	8.7
Stop Delay (hr)	0.0	2.6	2.6
Stop Del/Veh (s)	0.0	11.7	6.1

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	3.9	3.9
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.6	1.6

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.2	2.2
Total Del/Veh (s)	12.8	12.8
Stop Delay (hr)	0.9	0.9
Stop Del/Veh (s)	5.4	5.4

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.0
Total Delay (hr)	1.5	1.8	0.4	3.6
Total Del/Veh (s)	2.1	5.5	7.6	3.4
Stop Delay (hr)	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.1	0.1

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	0.0	0.7	1.4
Total Del/Veh (s)	2.5	0.8	1.7	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.0

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.7	0.3	0.2	1.3
Total Del/Veh (s)	2.3	1.6	1.2	1.8
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.3	0.0	0.1
Total Delay (hr)	1.5	1.1	0.8	3.4
Total Del/Veh (s)	4.9	7.1	2.6	4.4
Stop Delay (hr)	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.1	0.1	0.2

Total Network Performance

Denied Delay (hr)	539.0
Denied Del/Veh (s)	77.9
Total Delay (hr)	727.4
Total Del/Veh (s)	104.1
Stop Delay (hr)	556.8
Stop Del/Veh (s)	79.7

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	27
Average Queue (ft)	3
95th Queue (ft)	17
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	84	24
Average Queue (ft)	35	1
95th Queue (ft)	63	9
Link Distance (ft)	104	295
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	NB	NB	SB	SB	SB	SB
Directions Served	L	TR	R	T	T	T	T	T	R
Maximum Queue (ft)	74	282	260	86	95	620	670	678	375
Average Queue (ft)	7	153	105	28	25	159	613	644	358
95th Queue (ft)	37	246	198	69	69	479	697	689	481
Link Distance (ft)	356	356		839	839	641	641	641	
Upstream Blk Time (%)		0				0	4	17	
Queuing Penalty (veh)		0				1	21	84	
Storage Bay Dist (ft)			170						225
Storage Blk Time (%)		5	0					80	
Queuing Penalty (veh)		26	0					132	

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	LT	R	T	T	R	T	T	R
Maximum Queue (ft)	112	63	60	44	33	64	577	667
Average Queue (ft)	47	29	11	7	4	12	35	58
95th Queue (ft)	83	62	40	26	18	41	273	332
Link Distance (ft)	182	182	455	455		839	839	839
Upstream Blk Time (%)							0	0
Queuing Penalty (veh)							0	0
Storage Bay Dist (ft)					200			
Storage Blk Time (%)								
Queuing Penalty (veh)								

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	35	4	74
Average Queue (ft)	3	0	37
95th Queue (ft)	17	3	65
Link Distance (ft)	1110	1148	2214
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	56	61
Average Queue (ft)	21	9
95th Queue (ft)	44	36
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	76	161	212	105	236	272	301	344	153	78	211	356
Average Queue (ft)	32	70	119	22	150	167	70	163	59	10	77	212
95th Queue (ft)	72	126	185	60	241	260	218	290	116	47	152	320
Link Distance (ft)		289	289				883	883				4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		0	6		3	7	0					4
Queuing Penalty (veh)		0	4		7	14	0					4

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	NB	SB	SB	SB	SB	SB	B32	B32
Directions Served	T	R	L	L	T	T	R	T	T
Maximum Queue (ft)	316	199	330	375	493	219	34	490	463
Average Queue (ft)	97	16	327	374	463	65	9	449	264
95th Queue (ft)	254	118	352	379	540	151	25	593	573
Link Distance (ft)	4516				395	395		466	466
Upstream Blk Time (%)				0	75			31	0
Queuing Penalty (veh)				0	311			126	1
Storage Bay Dist (ft)		160	285	285			130		
Storage Blk Time (%)	5		18	86	0	1			
Queuing Penalty (veh)	22		21	100	0	0			

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	T	T	R	L	T	R	L	TR	L	LT
Maximum Queue (ft)	72	60	22	85	90	39	18	36	24	36
Average Queue (ft)	21	13	2	32	13	7	2	10	1	10
95th Queue (ft)	53	41	13	67	52	27	12	25	10	29
Link Distance (ft)	1136	1136			3005	3005		546		1094
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)			140	250			150		135	
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	311	301	172	196	201	225	1109	1184	491	433
Average Queue (ft)	205	197	48	63	88	116	391	464	330	257
95th Queue (ft)	345	321	129	159	192	233	1199	1269	546	473
Link Distance (ft)	175	175	214	214	214		2313	2313		
Upstream Blk Time (%)	32	30		0	0		1	1		
Queuing Penalty (veh)	156	144		0	0		0	0		
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						3	30	12	9	0
Queuing Penalty (veh)						6	56	108	42	2

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	306	283	245	254	245	295	235
Average Queue (ft)	103	114	73	82	151	179	139
95th Queue (ft)	313	322	186	200	246	291	248
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)	14	14			2	8	0
Queuing Penalty (veh)	52	54			0	65	0
Storage Bay Dist (ft)					200		200
Storage Blk Time (%)					8	12	2
Queuing Penalty (veh)					48	72	7

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	413	455	495	769	750	753	295	268	321	388	621	731
Average Queue (ft)	353	439	488	717	681	652	226	151	197	225	307	411
95th Queue (ft)	433	495	528	834	849	865	410	251	295	353	509	644
Link Distance (ft)				686	686	686				916	916	916
Upstream Blk Time (%)				69	31	23						
Queuing Penalty (veh)				544	244	182						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	2	54	75	79		61		1	6	5		50
Queuing Penalty (veh)	10	264	367	562		103		4	23	17		204

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	289	335	818	738	211	258	300	329	287	89	91
Average Queue (ft)	215	231	286	449	382	80	132	200	210	64	39	35
95th Queue (ft)	284	364	393	940	850	176	226	328	352	255	75	75
Link Distance (ft)				1093	1093	1093	1093			2171	2171	2171
Upstream Blk Time (%)				0								
Queuing Penalty (veh)				0								
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)	6	2	54	3				7	12			
Queuing Penalty (veh)	24	4	100	10				5	9			

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	63
Average Queue (ft)	6
95th Queue (ft)	36
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	R	L	L	T	T	T	R	L
Maximum Queue (ft)	21	55	150	133	160	60	111	156	142	108	59	225
Average Queue (ft)	1	19	63	52	61	15	40	75	70	28	13	216
95th Queue (ft)	11	50	122	104	116	45	83	137	126	75	41	256
Link Distance (ft)			1420	1420	1420			593	593	593		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200	200				200	200				200	200
Storage Blk Time (%)								0				20
Queuing Penalty (veh)								0				33

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB	SB
Directions Served	L	T	T	T	R	L	L	T	T	T	R
Maximum Queue (ft)	250	825	779	186	108	32	78	317	256	174	51
Average Queue (ft)	243	534	294	69	43	3	24	172	138	61	12
95th Queue (ft)	276	985	753	147	83	18	63	269	221	137	37
Link Distance (ft)		1244	1244	1244				710	710	710	
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				200	200	200				200
Storage Blk Time (%)	78	2		0				4		0	
Queuing Penalty (veh)	128	5		0				1		0	

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	367	350	361	218	160	268	1202	1227	351	311
Average Queue (ft)	251	236	244	55	37	97	245	568	252	216
95th Queue (ft)	344	330	346	151	111	227	864	1451	323	286
Link Distance (ft)	260	260	260	212	212	212	1189	1189		
Upstream Blk Time (%)	9	6	9	0	0	1	1	3		
Queuing Penalty (veh)	29	20	29	1	0	4	0	0		
Storage Bay Dist (ft)									420	420
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	128	137	167	246	146	111	109	94	194	158
Average Queue (ft)	63	61	79	104	48	38	46	36	105	37
95th Queue (ft)	112	113	135	193	106	90	86	74	171	99
Link Distance (ft)	298	298	298	200	200	200	1196	1196		
Upstream Blk Time (%)				1	0					
Queuing Penalty (veh)				1	0					
Storage Bay Dist (ft)									400	400
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	T	R	L	L	T	T	TR	L
Maximum Queue (ft)	262	275	588	535	493	350	196	238	327	466	495	335
Average Queue (ft)	238	257	330	293	302	109	102	137	174	220	282	180
95th Queue (ft)	300	304	549	437	429	310	190	210	267	388	445	296
Link Distance (ft)			1335	1335	1335					1379	1379	1022
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)												
Storage Blk Time (%)												4
Queuing Penalty (veh)												7

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	NB	NB	SB	SB	SB	SB	SB
Directions Served	T	R	L	T	T	R	R
Maximum Queue (ft)	511	225	44	169	132	130	128
Average Queue (ft)	238	182	12	87	19	51	43
95th Queue (ft)	414	273	39	149	73	102	92
Link Distance (ft)	1022			441	441		
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)		200	200			200	200
Storage Blk Time (%)	8	6		0			
Queuing Penalty (veh)	32	27		0			

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	B52	B52	SB	SB	SB
Directions Served	L	R	T	T	R	T	T	T	L	T	T
Maximum Queue (ft)	151	70	223	232	147	4	20	9	144	114	119
Average Queue (ft)	83	30	107	120	69	0	1	0	72	43	52
95th Queue (ft)	133	59	190	201	120	3	13	6	119	86	99
Link Distance (ft)		1114	1807	1807	1807	2171	2171	2171		2777	2777
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	275					190					
Storage Blk Time (%)											
Queuing Penalty (veh)											

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	27	95	41	74	138	56	100	61	46	62	131	100
Average Queue (ft)	6	42	13	34	53	22	47	22	14	26	46	32
95th Queue (ft)	24	78	33	62	102	45	84	51	41	48	92	72
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)							1	0				
Queuing Penalty (veh)							0	0				

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	13
Average Queue (ft)	2
95th Queue (ft)	10
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	120	30	56	19
Average Queue (ft)	59	7	8	1
95th Queue (ft)	97	27	34	8
Link Distance (ft)	942	975	2208	2353
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 19: Bayou Road South & Metro Air Parkway

Movement	EB	WB	SB	SB
Directions Served	LT	TR	L	R
Maximum Queue (ft)	66	50	61	28
Average Queue (ft)	36	27	33	5
95th Queue (ft)	58	47	51	23
Link Distance (ft)	1265	1296	455	455
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	NB	NB	NB	SB
Directions Served	L	TR	L	T	L	T	R	TR
Maximum Queue (ft)	83	223	120	159	138	55	38	113
Average Queue (ft)	26	108	49	68	58	5	4	32
95th Queue (ft)	67	184	96	125	110	25	20	78
Link Distance (ft)	579	579	1484	1484		2353		1260
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)					200		200	
Storage Blk Time (%)					0			
Queuing Penalty (veh)					0			

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	EB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	R	L	R	L	T	T	TR	L	T	T
Maximum Queue (ft)	132	60	115	156	28	101	135	169	216	30	438	687
Average Queue (ft)	56	5	55	73	6	39	61	69	101	2	217	385
95th Queue (ft)	105	33	96	126	25	78	114	138	186	15	457	665
Link Distance (ft)		578					641	641	641		1168	1168
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200		100	200	100	200				200		
Storage Blk Time (%)			2	0								7
Queuing Penalty (veh)			2	0								0

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	SB
Directions Served	TR
Maximum Queue (ft)	747
Average Queue (ft)	462
95th Queue (ft)	730
Link Distance (ft)	1168
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	T	R	L	T	R	L	T	T	TR	L	T	T
Maximum Queue (ft)	45	63	203	162	60	48	218	197	333	157	162	198
Average Queue (ft)	4	13	115	11	18	9	101	74	135	58	44	75
95th Queue (ft)	23	42	188	116	48	32	184	162	267	120	122	160
Link Distance (ft)	604			480			1168	1168	1168		1244	1244
Upstream Blk Time (%)				0								
Queuing Penalty (veh)				0								
Storage Bay Dist (ft)		100	200		100	200				200		
Storage Blk Time (%)			2				0			1	0	
Queuing Penalty (veh)			1				0			3	0	

Intersection: 22: Metro Air Parkway & Meister Way

Movement	SB
Directions Served	TR
Maximum Queue (ft)	216
Average Queue (ft)	94
95th Queue (ft)	180
Link Distance (ft)	1244
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	WB	WB	NB	SB	SB
Directions Served	T	T	T	L	T	T	T	R	R	L	T
Maximum Queue (ft)	101	103	106	102	127	101	113	45	69	122	104
Average Queue (ft)	42	36	48	37	30	26	37	12	25	67	9
95th Queue (ft)	83	77	90	77	79	71	86	35	51	113	87
Link Distance (ft)	787	787	787		1781	1781	1781				578
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)				200				250	100	100	
Storage Blk Time (%)										4	
Queuing Penalty (veh)										0	

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	EB	WB	NB	NB	SB	SB
Directions Served	L	R	L	L	TR	L	TR
Maximum Queue (ft)	36	2	44	38	65	57	71
Average Queue (ft)	6	0	7	14	26	21	27
95th Queue (ft)	22	1	27	34	48	49	55
Link Distance (ft)				389	389	271	271
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	100	250	200				
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	SB
Directions Served	L	T	T	T	L	T	T	T	R	T	R	L
Maximum Queue (ft)	184	162	149	191	82	141	153	149	117	87	79	124
Average Queue (ft)	90	63	66	91	21	72	67	70	31	25	25	116
95th Queue (ft)	155	129	124	157	57	123	123	127	79	63	58	142
Link Distance (ft)		1781	1781	1781		1046	1046	1046		1161		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				200				250		100	100
Storage Blk Time (%)	0	0		0						0	0	33
Queuing Penalty (veh)	0	0		0						0	0	50

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	280	81
Average Queue (ft)	183	17
95th Queue (ft)	338	52
Link Distance (ft)	232	
Upstream Blk Time (%)	19	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		100
Storage Blk Time (%)	1	0
Queuing Penalty (veh)	3	0

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	
Directions Served	U	T	T	T	R	L	T	T	T	L	R	
Maximum Queue (ft)	43	172	213	285	99	130	116	107	142	11	178	
Average Queue (ft)	6	76	97	143	6	57	43	45	58	0	92	
95th Queue (ft)	28	143	180	236	48	106	95	95	125	8	160	
Link Distance (ft)		1046	1046	1046			707	707	707	842	842	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200					150	250					
Storage Blk Time (%)		0			5							
Queuing Penalty (veh)		0			0							

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	EB	NB
Directions Served	R	R
Maximum Queue (ft)	6	83
Average Queue (ft)	0	28
95th Queue (ft)	4	62
Link Distance (ft)		595
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	175	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	L	T	T	T	L	R
Maximum Queue (ft)	37	221	317	444	88	360	417	268	201	140	127	130
Average Queue (ft)	4	113	159	260	9	200	246	56	46	47	50	62
95th Queue (ft)	23	192	268	399	77	354	405	207	126	106	101	112
Link Distance (ft)		972	972	972				967	967	967		828
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				250	430	430				150	
Storage Blk Time (%)		0		10	0	0	2				0	0
Queuing Penalty (veh)		0		1	0	0	4				0	0

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	141
Average Queue (ft)	68
95th Queue (ft)	118
Link Distance (ft)	828
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	62	63	49	57
Average Queue (ft)	37	29	24	31
95th Queue (ft)	56	47	47	48
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	NB	NB	SB	SB
Directions Served	R	L	T	T	TR
Maximum Queue (ft)	729	120	23	306	216
Average Queue (ft)	605	50	1	122	31
95th Queue (ft)	922	97	12	278	142
Link Distance (ft)	680		466	678	678
Upstream Blk Time (%)	75				
Queuing Penalty (veh)	0				
Storage Bay Dist (ft)		200			
Storage Blk Time (%)	91				
Queuing Penalty (veh)	0				

Intersection: 69: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	22	40
Average Queue (ft)	1	3
95th Queue (ft)	12	19
Link Distance (ft)	1085	1085
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 71:

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	33	40
Average Queue (ft)	2	4
95th Queue (ft)	18	21
Link Distance (ft)	336	336
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	304
Average Queue (ft)	150
95th Queue (ft)	253
Link Distance (ft)	581
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	46	74
Average Queue (ft)	2	23
95th Queue (ft)	19	53
Link Distance (ft)	1014	1014
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 110:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	23	30
Average Queue (ft)	1	2
95th Queue (ft)	14	15
Link Distance (ft)	476	476
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	18
Average Queue (ft)	1
95th Queue (ft)	11
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	166	151
Average Queue (ft)	87	95
95th Queue (ft)	137	137
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	EB	WB	WB	WB	SB
Directions Served	T	T	T	T	R	L
Maximum Queue (ft)	6	12	6	6	20	123
Average Queue (ft)	0	1	0	0	1	57
95th Queue (ft)	4	9	4	4	12	96
Link Distance (ft)	3005	3005	289	289	289	316
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB	EB
Directions Served	T	T	R
Maximum Queue (ft)	272	536	395
Average Queue (ft)	29	42	22
95th Queue (ft)	210	277	206
Link Distance (ft)	883	883	883
Upstream Blk Time (%)		0	0
Queuing Penalty (veh)		0	0
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1003: Del Paso Road

Movement	EB	EB
Directions Served	T	TR
Maximum Queue (ft)	566	576
Average Queue (ft)	196	199
95th Queue (ft)	714	719
Link Distance (ft)	748	748
Upstream Blk Time (%)	9	7
Queuing Penalty (veh)	54	45
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB
Directions Served	T	T	T	TR
Maximum Queue (ft)	253	274	256	167
Average Queue (ft)	122	126	112	6
95th Queue (ft)	303	323	298	85
Link Distance (ft)	214	214	214	370
Upstream Blk Time (%)	15	10	5	0
Queuing Penalty (veh)	117	80	43	0
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	586	582	571	21	209	145	140
Average Queue (ft)	409	383	350	1	14	54	54
95th Queue (ft)	762	752	709	15	142	116	114
Link Distance (ft)	370	370	370	686	686	686	686
Upstream Blk Time (%)	58	46	27				
Queuing Penalty (veh)	453	362	214				
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement	SB	B1009
Directions Served	T	T
Maximum Queue (ft)	411	392
Average Queue (ft)	83	53
95th Queue (ft)	495	396
Link Distance (ft)	839	977
Upstream Blk Time (%)	6	2
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	81	95
Average Queue (ft)	42	52
95th Queue (ft)	72	75
Link Distance (ft)	152	152
Upstream Blk Time (%)		0
Queuing Penalty (veh)		0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	247
Average Queue (ft)	119
95th Queue (ft)	209
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	30	6
Average Queue (ft)	1	0
95th Queue (ft)	16	4
Link Distance (ft)	212	212
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1302: West Elkhorn Boulevard

Movement	EB	EB	EB
Directions Served	T	T	T
Maximum Queue (ft)	14	6	12
Average Queue (ft)	1	0	0
95th Queue (ft)	8	5	6
Link Distance (ft)	271	271	271
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1401: West Elkhorn Boulevard

Movement	WB
Directions Served	T
Maximum Queue (ft)	4
Average Queue (ft)	0
95th Queue (ft)	3
Link Distance (ft)	271
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 6342

APPENDIX G:

SimTraffic Reports – Cumulative with Project

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	6:45	6:45	6:45	6:45	6:45	6:45
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	23898	24256	24348	24212	24020	24146
Vehs Exited	23469	23923	23953	23887	23750	23796
Starting Vehs	1419	1449	1428	1386	1475	1420
Ending Vehs	1848	1782	1823	1711	1745	1762
Travel Distance (mi)	22265	22506	22676	22571	22392	22482
Travel Time (hr)	3509.1	3516.5	3583.4	3226.3	3599.5	3487.0
Total Delay (hr)	2868.9	2868.9	2931.5	2578.1	2956.0	2840.7
Total Stops	42818	42480	43069	43607	42746	42943
Fuel Used (gal)	1425.9	1436.1	1454.4	1369.2	1449.3	1427.0

Interval #0 Information Seeding

Start Time	6:45
End Time	7:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	23898	24256	24348	24212	24020	24146
Vehs Exited	23469	23923	23953	23887	23750	23796
Starting Vehs	1419	1449	1428	1386	1475	1420
Ending Vehs	1848	1782	1823	1711	1745	1762
Travel Distance (mi)	22265	22506	22676	22571	22392	22482
Travel Time (hr)	3509.1	3516.5	3583.4	3226.3	3599.5	3487.0
Total Delay (hr)	2868.9	2868.9	2931.5	2578.1	2956.0	2840.7
Total Stops	42818	42480	43069	43607	42746	42943
Fuel Used (gal)	1425.9	1436.1	1454.4	1369.2	1449.3	1427.0

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.9	0.0	0.0	0.9
Denied Del/Veh (s)	2.2	3.0	0.0	0.0	2.0
Total Delay (hr)	0.0	0.7	0.0	0.0	0.8
Total Del/Veh (s)	11.6	2.3	0.0	0.3	1.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	9.3	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.1	0.0	0.0
Total Delay (hr)	0.4	0.0	0.0	0.0	0.0	0.4
Total Del/Veh (s)	4.9	3.1	1.6	1.4	0.7	4.1
Stop Delay (hr)	0.3	0.0	0.0	0.0	0.0	0.3
Stop Del/Veh (s)	3.6	3.3	0.3	0.0	0.0	2.9

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.2	0.1	0.6	0.0
Total Delay (hr)	2.3	0.1	2.1	1.9	0.1	6.2	0.1	12.7
Total Del/Veh (s)	12.7	14.4	7.9	15.4	3.6	16.9	8.0	12.9
Stop Delay (hr)	1.7	0.0	1.3	1.2	0.0	3.5	0.0	7.7
Stop Del/Veh (s)	9.3	7.4	5.0	10.0	0.2	9.5	2.1	7.9

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1
Total Delay (hr)	0.7	0.0	0.5	0.8	1.3	4.9	1.1	9.3
Total Del/Veh (s)	12.7	10.0	11.1	7.5	7.2	14.0	5.9	10.1
Stop Delay (hr)	0.6	0.0	0.5	0.4	0.6	2.0	0.0	4.2
Stop Del/Veh (s)	11.0	6.9	10.6	3.8	3.4	5.7	0.1	4.5

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.1	0.1	0.2
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.2
Total Del/Veh (s)	1.5	0.2	2.8	1.0	3.8	2.8	2.0
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	1.0	0.0	0.0	0.0	1.8	2.0	0.6

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.5	1.9	0.4	0.4	0.4	0.4	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.5	1.4	0.0	0.0	0.0	0.0	0.2

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3	1.6	0.0	0.0	0.0
Total Delay (hr)	0.3	6.1	0.5	4.4	5.0	1.1	10.1	3.4	0.6	3.9	4.1	0.1
Total Del/Veh (s)	43.6	34.7	10.9	44.0	29.9	10.2	139.4	46.2	5.2	52.3	33.5	10.8
Stop Delay (hr)	0.3	5.1	0.4	3.9	3.7	0.8	9.4	2.6	0.1	3.6	3.3	0.1
Stop Del/Veh (s)	41.5	28.8	9.2	39.0	22.2	7.7	128.5	35.1	0.5	48.5	27.2	10.0

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.3
Denied Del/Veh (s)	0.3
Total Delay (hr)	39.6
Total Del/Veh (s)	36.8
Stop Delay (hr)	33.2
Stop Del/Veh (s)	30.8

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.2	0.0	1.0	0.1	0.0	0.0	4.0	0.2	0.2	0.3	0.3	3.5
Total Delay (hr)	0.1	0.1	0.0	0.2	0.1	0.4	0.0	0.5	0.1	1.0	0.4	0.0
Total Del/Veh (s)	25.5	14.3	2.2	26.5	13.4	6.3	19.0	19.8	8.0	15.6	16.8	3.2
Stop Delay (hr)	0.1	0.1	0.0	0.2	0.0	0.3	0.0	0.4	0.1	0.8	0.3	0.0
Stop Del/Veh (s)	24.5	11.1	2.3	25.0	9.9	3.9	16.6	14.7	6.9	12.5	11.3	2.6

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	2.9
Total Del/Veh (s)	13.0
Stop Delay (hr)	2.2
Stop Del/Veh (s)	9.9

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	20.0	33.5	53.5
Denied Del/Veh (s)	0.0	0.0	126.8	123.8	43.7
Total Delay (hr)	8.5	4.7	57.1	55.8	126.0
Total Del/Veh (s)	37.0	8.2	392.3	232.3	106.5
Stop Delay (hr)	7.5	1.6	55.7	51.8	116.6
Stop Del/Veh (s)	32.7	2.9	382.8	215.6	98.6

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	3.5	3.0	7.2	2.5	1.7	17.9
Total Del/Veh (s)	15.1	10.9	17.1	24.3	16.2	15.8
Stop Delay (hr)	2.7	1.4	1.0	2.3	1.5	8.9
Stop Del/Veh (s)	11.9	4.9	2.3	21.7	14.4	7.8

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0	75.0	11.8	220.4
Denied Del/Veh (s)	0.0	0.0	0.0	2.2	0.4	2.2	3.1	0.1	0.2	511.3	512.1	498.1
Total Delay (hr)	60.6	11.0	0.6	5.0	12.9	1.8	2.6	4.6	0.9	12.1	0.7	60.6
Total Del/Veh (s)	392.6	48.7	10.8	71.1	42.5	16.3	75.4	43.4	15.2	104.2	41.0	174.6
Stop Delay (hr)	58.9	8.7	0.3	4.5	10.0	1.0	2.4	3.8	0.8	11.0	0.6	34.3
Stop Del/Veh (s)	381.5	38.7	5.0	64.7	32.9	9.3	70.4	35.3	13.3	94.3	33.4	98.9

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	307.8
Denied Del/Veh (s)	180.0
Total Delay (hr)	173.4
Total Del/Veh (s)	108.3
Stop Delay (hr)	136.3
Stop Del/Veh (s)	85.2

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.3	3.5	0.1	3.6
Total Delay (hr)	0.2	0.5	0.0	1.2	1.0	0.0	0.3	2.7	0.6	0.1	0.8	0.0
Total Del/Veh (s)	23.0	17.8	3.0	24.5	10.9	4.2	28.9	11.2	9.3	29.1	10.2	2.0
Stop Delay (hr)	0.2	0.4	0.0	1.0	0.7	0.0	0.3	1.1	0.2	0.1	0.5	0.0
Stop Del/Veh (s)	21.5	14.2	3.3	21.5	7.4	4.4	23.8	4.7	2.7	26.8	6.2	2.0

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	7.5
Total Del/Veh (s)	12.3
Stop Delay (hr)	4.6
Stop Del/Veh (s)	7.5

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.5	0.7
Denied Del/Veh (s)	0.0	0.0	1.1	2.7	0.9
Total Delay (hr)	1.6	20.4	3.6	1.9	27.5
Total Del/Veh (s)	10.4	72.4	27.5	9.8	36.2
Stop Delay (hr)	1.1	20.0	2.9	1.1	25.1
Stop Del/Veh (s)	7.1	71.2	21.7	5.5	33.0

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.3	0.4
Denied Del/Veh (s)	0.0	0.0	0.5	2.7	0.8
Total Delay (hr)	0.7	1.5	1.2	1.2	4.6
Total Del/Veh (s)	8.3	8.8	9.9	10.7	9.4
Stop Delay (hr)	0.4	0.9	0.8	0.9	3.0
Stop Del/Veh (s)	5.0	5.2	7.1	7.8	6.2

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	221.8	650.7	1.4	68.1	14.2	45.0	5.1	180.6	200.7
Denied Del/Veh (s)	0.0	0.0	0.0	1358.2	1330.3	1233.4	752.0	728.2	764.9	923.3	893.1	894.3
Total Delay (hr)	3.9	7.1	1.6	15.7	140.4	0.4	40.7	4.1	10.3	0.2	7.9	18.9
Total Del/Veh (s)	91.4	37.7	13.6	95.3	886.9	1505.8	729.1	367.2	316.1	54.7	67.7	142.3
Stop Delay (hr)	0.0	0.0	0.0	11.0	11.0	11.0	11.0	11.0	11.0	0.2	7.2	18.0
Stop Del/Veh (s)	0.0	0.0	0.0	66.0	66.0	66.0	66.0	66.0	66.0	0.8	50.3	61.4

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	All
Denied Delay (hr)	1387.7
Denied Del/Veh (s)	868.1
Total Delay (hr)	251.3
Total Del/Veh (s)	275.8
Stop Delay (hr)	244.8
Stop Del/Veh (s)	268.7

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.4	0.1	0.0	0.0	0.0	0.1	0.7
Denied Del/Veh (s)	3.1	1.4	0.0	0.0	1.1	0.3	0.7
Total Delay (hr)	4.7	0.8	5.1	0.6	1.4	5.8	18.4
Total Del/Veh (s)	31.9	12.9	18.7	6.8	47.0	17.7	19.9
Stop Delay (hr)	3.8	0.7	3.3	0.3	1.2	2.9	12.2
Stop Del/Veh (s)	25.6	10.3	12.1	3.7	41.2	8.9	13.2

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	3.1	0.6	3.4	3.5	0.3	0.1	3.7	0.2	3.7	0.0	0.0	0.0
Total Delay (hr)	0.0	0.9	0.2	0.2	0.3	0.1	0.4	0.6	0.0	1.2	0.9	0.0
Total Del/Veh (s)	26.7	12.1	3.7	20.7	8.9	2.4	19.5	17.9	4.3	27.7	4.2	7.4
Stop Delay (hr)	0.0	0.6	0.1	0.2	0.2	0.1	0.3	0.4	0.0	0.9	0.1	0.0
Stop Del/Veh (s)	24.2	7.6	2.4	18.6	5.3	2.0	16.9	12.4	3.1	20.8	0.3	3.1

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	0.7
Total Delay (hr)	4.9
Total Del/Veh (s)	9.4
Stop Delay (hr)	2.9
Stop Del/Veh (s)	5.6

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.5	2.2	0.5	0.7	1.8	1.5	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	2.7	1.9	0.2	0.0	0.4	0.3	0.6

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.4	3.9	0.3	0.2	0.2
Total Delay (hr)	0.4	0.1	0.0	0.0	1.0	0.0	0.1	0.1	0.1	0.1	0.2	2.1
Total Del/Veh (s)	17.9	8.0	2.4	20.5	10.7	4.6	8.2	2.5	21.3	14.0	4.3	8.5
Stop Delay (hr)	0.3	0.1	0.0	0.0	0.5	0.0	0.1	0.1	0.1	0.0	0.1	1.3
Stop Del/Veh (s)	15.6	4.1	1.8	20.0	5.7	0.0	4.6	1.9	18.9	6.5	2.9	5.4

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	4.0	4.0	4.1	4.1	0.5	0.0	0.1	0.4	0.0	0.0	0.3
Total Delay (hr)	0.2	0.1	0.3	0.0	1.1	1.6	0.2	0.0	3.2	0.2	6.9
Total Del/Veh (s)	23.9	5.7	25.2	5.0	23.8	4.8	3.9	25.8	9.9	7.1	8.4
Stop Delay (hr)	0.2	0.1	0.3	0.0	0.9	0.5	0.1	0.0	1.4	0.1	3.6
Stop Del/Veh (s)	22.4	5.5	23.6	5.3	20.3	1.5	1.8	22.7	4.3	3.8	4.4

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.2
Denied Del/Veh (s)	4.2	5.4	2.8	5.8	0.0	0.0	0.1	0.5	0.0	1.7
Total Delay (hr)	0.0	5.0	0.0	0.6	0.1	5.1	1.1	0.1	2.1	14.3
Total Del/Veh (s)	4.1	30.5	17.6	14.2	36.5	18.0	21.0	37.4	13.8	19.9
Stop Delay (hr)	0.1	3.7	0.0	0.4	0.1	3.1	0.8	0.1	1.4	9.6
Stop Del/Veh (s)	4.3	22.2	8.7	9.5	33.2	10.9	14.0	34.6	8.8	13.2

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.1	0.6	0.0	0.5	4.0	4.1	4.2	0.4
Total Delay (hr)	0.4	0.0	0.4	0.7	0.2	0.1	0.0	0.1	1.8
Total Del/Veh (s)	4.8	1.6	13.6	4.7	3.9	15.2	2.8	13.5	5.7
Stop Delay (hr)	0.2	0.0	0.2	0.2	0.0	0.1	0.0	0.1	0.8
Stop Del/Veh (s)	2.6	1.5	8.6	1.0	0.7	14.0	3.3	12.1	2.5

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.6	0.0	0.6	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.5
Total Del/Veh (s)	4.4	1.4	1.3	3.7	1.0	0.9	12.0	13.7	2.2	11.7	3.9	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.7	0.4	0.3	1.5	0.1	0.1	10.9	9.2	2.5	10.2	3.7	0.8

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Denied Del/Veh (s)	0.3	0.0	0.0	0.0	0.0	0.2	3.7	4.0	0.5	3.9	0.4
Total Delay (hr)	0.4	0.7	0.3	2.2	0.8	0.7	0.0	0.3	0.1	0.1	5.6
Total Del/Veh (s)	26.6	8.6	26.2	12.1	9.7	16.8	4.6	27.2	10.5	4.9	12.2
Stop Delay (hr)	0.3	0.4	0.2	1.1	0.4	0.5	0.0	0.3	0.0	0.1	3.4
Stop Del/Veh (s)	23.4	4.7	21.8	6.3	4.9	11.9	3.4	25.2	7.5	4.5	7.6

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.0	0.0	0.1	0.0	0.2	0.2	0.1
Total Delay (hr)	0.0	1.1	0.0	0.3	1.8	0.7	0.3	4.2
Total Del/Veh (s)	28.1	11.7	6.2	22.9	7.8	14.1	5.1	9.4
Stop Delay (hr)	0.0	0.6	0.0	0.3	0.9	0.6	0.3	2.6
Stop Del/Veh (s)	27.5	6.4	2.8	20.4	3.8	11.8	4.3	5.9

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.3	0.0	0.4	0.2	1.0
Total Del/Veh (s)	2.3	2.3	1.6	5.3	2.1
Stop Delay (hr)	0.1	0.0	0.0	0.2	0.2
Stop Del/Veh (s)	0.4	0.3	0.1	5.0	0.5

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.5	0.0	3.7	0.1	0.1
Total Delay (hr)	0.0	1.2	0.0	0.5	0.9	0.1	0.3	3.0
Total Del/Veh (s)	25.0	7.4	3.5	17.4	3.1	20.9	6.7	5.6
Stop Delay (hr)	0.0	0.6	0.0	0.4	0.3	0.1	0.3	1.7
Stop Del/Veh (s)	25.0	3.7	2.0	15.0	1.0	19.4	6.4	3.1

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.1	0.2	0.0
Total Delay (hr)	0.0	0.1	0.0	0.1	0.2	0.0	0.4
Total Del/Veh (s)	4.8	3.4	3.4	1.5	8.3	2.2	3.2
Stop Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.6	2.8	1.9	0.3	2.4	1.8	1.3

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	3.9	0.2	0.0	0.0	0.1	0.1	0.1
Total Delay (hr)	0.1	0.4	1.1	0.1	0.2	0.0	1.9
Total Del/Veh (s)	54.1	6.1	9.9	1.8	1.6	0.3	4.9
Stop Delay (hr)	0.1	0.3	0.7	0.0	0.0	0.0	1.0
Stop Del/Veh (s)	52.4	5.0	5.9	0.0	0.0	0.1	2.6

31: Powerline Road & Airport South Industrial Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.2	2.9	0.3	0.0	0.5
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	5.2	2.1	0.5	0.1	1.3	0.5	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	4.1	2.6	0.0	0.0	0.5	0.1	0.4

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.0	1.0	0.6	0.7	3.1
Total Del/Veh (s)	5.9	7.7	3.7	6.1	8.3	3.9	9.1	3.0	12.7	13.2	11.1	9.6
Stop Delay (hr)	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.0	0.6	0.3	0.5	2.0
Stop Del/Veh (s)	4.4	3.7	3.6	5.0	5.7	4.0	4.6	2.8	8.4	6.4	8.0	6.3

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	6.9	9.0	8.7	4.1	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3
Total Delay (hr)	3.9	0.0	0.0	0.1	0.1	0.9	0.0	2.0	0.0	2.4	3.4	1.3
Total Del/Veh (s)	30.3	20.4	9.7	37.9	42.5	15.4	42.9	21.5	17.1	39.3	17.3	10.1
Stop Delay (hr)	3.4	0.0	0.0	0.1	0.1	0.8	0.0	1.6	0.0	2.0	1.9	0.5
Stop Del/Veh (s)	26.4	16.3	7.8	34.4	37.8	13.7	40.9	17.3	15.4	33.4	9.9	4.2

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	All
Denied Delay (hr)	1.0
Denied Del/Veh (s)	1.5
Total Delay (hr)	14.1
Total Del/Veh (s)	20.9
Stop Delay (hr)	10.5
Stop Del/Veh (s)	15.5

34: Parcel 8 E Driveway & Bayou Way Performance by movement

Movement	WBL	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.4	1.1	1.1
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3

36: Airport South Industrial Drive & Parcel 7C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	1.3	0.8	0.0	4.4	3.6	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.1	0.1	2.9	3.4	0.1

37: Airport South Industrial Drive & Parcel 3 West Driveway Performance by movement

Movement	EBL	EBT	WBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.3	0.5	0.3	3.2	0.8
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.6	0.0	0.0	3.0	0.2

38: Airport South Industrial Drive & Parcel 6C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.4	0.5	0.0	10.9	4.4	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	8.7	4.4	0.1

39: Airport South Industrial Drive & Parcel 1 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.3	0.7	0.1	5.5	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	3.6	0.4

40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	1.3	0.3	0.1	1.6	0.3	2.6	1.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.2	0.0	2.4	0.5

41: Airport South Industrial Drive & Parcel 3 East Driveway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.0	0.4	0.3	0.1	5.9	3.5	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.0	0.0	0.0	0.0	4.0	3.5	0.1

42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.0	0.3	2.1	0.2	0.0	3.1	6.9	3.0	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.7	0.0	0.8	0.0	0.0	3.1	5.1	3.1	0.3

43: Airport South Industrial Drive & Parcel 5 West Driveway Performance by movement

Movement	EBL	EBT	EBR	WBT	NBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)	2.5	2.0	0.6	0.1	6.9	3.3	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.6	0.0	0.0	0.0	5.0	3.0	0.6

44: Airport South Industrial Drive & Parcel 5 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.1	0.4	0.3	5.2	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3	3.5	0.3

69: I-5 Northbound Ramp Performance by movement

Movement	SER	NWT	All
Denied Delay (hr)	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.5	0.5
Total Delay (hr)	0.0	1.4	1.4
Total Del/Veh (s)	1.2	3.0	2.9
Stop Delay (hr)	0.0	0.1	0.1
Stop Del/Veh (s)	0.0	0.1	0.1

71: Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	2.9	2.9
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.9	0.9

74: Performance by movement

Movement	EBR	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	22.1	22.1
Total Del/Veh (s)	90.7	90.6
Stop Delay (hr)	26.0	26.0
Stop Del/Veh (s)	106.8	106.7

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	3.3	3.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.5	0.5

95: Airport South Industrial Drive & Parcel 8 E Driveway Performance by movement

Movement	EBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.3	0.3	0.2
Total Delay (hr)	0.1	0.0	0.1	0.3	0.5
Total Del/Veh (s)	3.9	5.2	9.6	4.8	5.1
Stop Delay (hr)	0.1	0.0	0.0	0.2	0.3
Stop Del/Veh (s)	2.6	2.4	2.7	2.5	2.5

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.5	0.1	0.0	0.6
Total Del/Veh (s)	1.7	0.4	0.5	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.1	0.1	0.1
Total Del/Veh (s)	0.0	0.7	0.3	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

110: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.9	0.9
Total Del/Veh (s)	4.9	4.9
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.6	1.6

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2	0.3
Total Del/Veh (s)	0.8	1.2	1.2	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.3	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.3	4.9	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	1.9	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.2	0.0	0.2
Total Del/Veh (s)	2.0	0.1	2.0
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2	0.4
Total Del/Veh (s)	1.4	0.9	1.4	1.4
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	4.3	4.3
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.7	1.7

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	69.9	69.9
Denied Del/Veh (s)	0.0	0.0	0.0	401.9	139.5
Total Delay (hr)	0.3	0.2	0.8	15.2	16.4
Total Del/Veh (s)	3.0	1.9	4.8	105.7	34.7
Stop Delay (hr)	0.0	0.0	0.0	16.6	16.6
Stop Del/Veh (s)	0.3	0.2	0.2	114.9	35.1

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	3.3	1.1	0.6	5.1
Total Del/Veh (s)	14.0	8.6	1.6	6.8
Stop Delay (hr)	2.4	0.5	0.1	3.0
Stop Del/Veh (s)	10.2	3.8	0.1	4.0

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.6	0.2	0.0	0.8
Denied Del/Veh (s)	2.4	2.0	0.0	0.8
Total Delay (hr)	8.4	2.7	2.2	13.3
Total Del/Veh (s)	35.3	25.6	3.2	12.8
Stop Delay (hr)	7.2	2.0	0.1	9.3
Stop Del/Veh (s)	30.3	19.2	0.1	9.0

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	6.8	2.6	0.7	10.2
Total Del/Veh (s)	15.7	4.6	7.2	9.2
Stop Delay (hr)	5.5	0.3	0.1	5.8
Stop Del/Veh (s)	12.5	0.5	0.9	5.3

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	24.9	11.1	36.0
Total Del/Veh (s)	57.2	16.6	32.5
Stop Delay (hr)	22.6	3.8	26.4
Stop Del/Veh (s)	52.1	5.6	23.9

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	2.5	0.4	2.9
Total Del/Veh (s)	6.0	1.8	4.6
Stop Delay (hr)	1.0	0.0	1.0
Stop Del/Veh (s)	2.4	0.0	1.6

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	7.0	7.0
Total Del/Veh (s)	16.6	16.6
Stop Delay (hr)	6.4	6.4
Stop Del/Veh (s)	15.4	15.4

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.2	1.2
Total Del/Veh (s)	9.3	9.3
Stop Delay (hr)	0.4	0.4
Stop Del/Veh (s)	3.0	3.0

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	5.0	0.0	5.0
Denied Del/Veh (s)	0.0	18.1	0.4	7.9
Total Delay (hr)	0.4	53.5	8.6	62.5
Total Del/Veh (s)	1.2	183.5	410.6	95.1
Stop Delay (hr)	0.1	53.3	8.7	62.1
Stop Del/Veh (s)	0.3	182.9	417.6	94.6

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	8.2	8.3
Total Del/Veh (s)	0.3	0.3	20.1	13.5
Stop Delay (hr)	0.0	0.0	7.4	7.4
Stop Del/Veh (s)	0.0	0.0	18.1	12.1

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	7.8	12.4	20.2
Denied Del/Veh (s)	0.0	45.3	51.1	32.8
Total Delay (hr)	0.3	0.2	13.2	13.7
Total Del/Veh (s)	1.2	1.3	55.1	22.4
Stop Delay (hr)	0.0	0.1	15.0	15.1
Stop Del/Veh (s)	0.2	0.6	62.4	24.7

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.2	0.0	0.0
Total Delay (hr)	0.2	0.3	0.4	0.9
Total Del/Veh (s)	1.9	2.7	1.6	1.9
Stop Delay (hr)	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.3	0.2	0.2	0.2

Total Network Performance

Denied Delay (hr)	1852.0
Denied Del/Veh (s)	239.9
Total Delay (hr)	988.7
Total Del/Veh (s)	139.3
Stop Delay (hr)	830.3
Stop Del/Veh (s)	117.0

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	22
Average Queue (ft)	3
95th Queue (ft)	18
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	88	6
Average Queue (ft)	42	0
95th Queue (ft)	73	4
Link Distance (ft)	104	295
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	WB	NB	NB	SB	SB	SB	SB
Directions Served	L	L	TR	R	T	T	T	T	T	R
Maximum Queue (ft)	194	259	236	231	169	164	254	270	275	50
Average Queue (ft)	74	146	115	105	72	80	130	136	136	10
95th Queue (ft)	156	241	186	173	126	131	215	226	237	31
Link Distance (ft)		354	354		839	839	641	641	641	
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	300			170						225
Storage Blk Time (%)		0	1	0		0			1	
Queuing Penalty (veh)		0	3	0		0			0	

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	LT	R	T	T	R	T	T	R
Maximum Queue (ft)	176	128	85	103	195	246	331	103
Average Queue (ft)	80	64	25	35	90	112	163	3
95th Queue (ft)	141	114	61	78	163	210	273	43
Link Distance (ft)	174	174	447	447		839	839	839
Upstream Blk Time (%)	0							
Queuing Penalty (veh)	0							
Storage Bay Dist (ft)					200			
Storage Blk Time (%)					0			
Queuing Penalty (veh)					0			

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	25	71
Average Queue (ft)	1	34
95th Queue (ft)	12	59
Link Distance (ft)	1110	2214
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB
Directions Served	LR
Maximum Queue (ft)	63
Average Queue (ft)	26
95th Queue (ft)	52
Link Distance (ft)	4644
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	58	225	290	230	211	230	262	377	208	136	340	583
Average Queue (ft)	20	136	185	71	109	122	84	211	91	22	254	271
95th Queue (ft)	48	203	259	186	176	195	192	354	166	81	410	659
Link Distance (ft)		289	289				883	883				4516
Upstream Blk Time (%)		0	1									
Queuing Penalty (veh)		0	3									
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		1	20		0	1	0				31	1
Queuing Penalty (veh)		0	34		0	3	0				41	2

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	NB	SB	SB	SB	SB	SB
Directions Served	T	R	L	L	T	T	R
Maximum Queue (ft)	549	68	178	226	244	188	58
Average Queue (ft)	157	5	78	123	120	104	13
95th Queue (ft)	550	56	150	198	185	167	37
Link Distance (ft)	4516				405	405	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)		160	285	285			130
Storage Blk Time (%)	0			0	0	4	
Queuing Penalty (veh)	1			0	0	1	

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	T	T	R	L	T	R	L	TR	L	LT	R
Maximum Queue (ft)	31	39	29	19	62	48	129	28	115	115	172	23
Average Queue (ft)	9	8	4	2	17	10	56	5	49	22	82	3
95th Queue (ft)	29	28	19	13	46	35	94	21	92	69	141	15
Link Distance (ft)		1136	1136			3005	3005		546		1094	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	180			140	250			150		135		135
Storage Blk Time (%)									0	0	1	
Queuing Penalty (veh)									0	0	2	

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	309	310	193	233	271	225	2248	2242	540	463
Average Queue (ft)	164	155	68	143	177	208	1722	1597	414	179
95th Queue (ft)	347	318	140	222	249	292	2794	2958	684	403
Link Distance (ft)	178	178	211	211	211		2282	2282		
Upstream Blk Time (%)	31	24	0	0	2		40	40		
Queuing Penalty (veh)	139	108	0	3	13		0	0		
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						3	83	14	3	0
Queuing Penalty (veh)						9	229	89	9	0

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	R	L	L	R
Maximum Queue (ft)	209	232	273	432	422	176	212	222
Average Queue (ft)	93	111	92	171	72	78	101	128
95th Queue (ft)	235	251	272	479	424	143	165	207
Link Distance (ft)	200	200	748	748	748		248	
Upstream Blk Time (%)	5	6		2	2	0	0	0
Queuing Penalty (veh)	23	24		24	23	0	1	0
Storage Bay Dist (ft)						200		200
Storage Blk Time (%)						0	0	1
Queuing Penalty (veh)						0	1	5

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	412	455	495	766	740	707	295	216	312	363	446	562
Average Queue (ft)	338	433	480	693	544	408	113	112	156	209	251	288
95th Queue (ft)	450	501	549	871	875	736	299	212	244	313	373	470
Link Distance (ft)				683	683	683				916	916	916
Upstream Blk Time (%)				70	11	0						
Queuing Penalty (veh)				432	67	2						
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	4	54	78	74		20		0	1	4		32
Queuing Penalty (veh)	12	171	247	494		45		1	2	10		126

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	160	183	213	186	140	149	309	330	622	2224	2302
Average Queue (ft)	164	32	87	125	101	23	60	210	224	49	738	2019
95th Queue (ft)	296	106	155	187	165	89	124	319	346	367	2327	2589
Link Distance (ft)				1093	1093	1093	1093			2207	2207	2207
Upstream Blk Time (%)												0 35
Queuing Penalty (veh)												3 196
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)	1			0				5	8			
Queuing Penalty (veh)	5			0				1	2			

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB	B52	B52	B52
Directions Served	R	T	T	T
Maximum Queue (ft)	390	464	517	582
Average Queue (ft)	390	49	163	205
95th Queue (ft)	392	370	705	792
Link Distance (ft)		1807	1807	1807
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	300			
Storage Blk Time (%)	26			
Queuing Penalty (veh)	7			

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	R	L	L	T	T	T	R	L
Maximum Queue (ft)	31	62	94	90	49	108	159	128	118	73	58	52
Average Queue (ft)	4	18	18	29	16	30	74	47	55	12	13	6
95th Queue (ft)	20	47	59	74	40	74	131	107	99	43	41	27
Link Distance (ft)			1456	1456	1456			590	590	590	590	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200	200				200	200					200
Storage Blk Time (%)							0					
Queuing Penalty (veh)							0					

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB	SB
Directions Served	L	T	T	T	R	L	L	T	T	T	R
Maximum Queue (ft)	75	187	164	168	157	26	61	129	105	31	64
Average Queue (ft)	33	78	73	77	58	3	11	52	25	5	13
95th Queue (ft)	69	153	141	137	111	15	38	105	63	20	40
Link Distance (ft)		1247	1247	1247				707	707	707	
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				200	200	200				200
Storage Blk Time (%)		0			0						
Queuing Penalty (veh)		0			0						

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	116	108	136	168	194	582	250	466	199	146
Average Queue (ft)	53	44	69	63	58	551	74	163	89	67
95th Queue (ft)	94	87	116	129	141	574	157	330	152	110
Link Distance (ft)	260	260	260	212	212	212	1189	1189		
Upstream Blk Time (%)				0	0	92		0		
Queuing Penalty (veh)				0	1	833		0		
Storage Bay Dist (ft)									420	420
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	52	65	99	119	126	109	120	154	158	137
Average Queue (ft)	16	24	50	69	52	38	56	68	83	47
95th Queue (ft)	45	55	90	114	100	82	101	122	133	95
Link Distance (ft)	263	263	263	186	186	186	1196	1196		
Upstream Blk Time (%)					0					
Queuing Penalty (veh)					0					
Storage Bay Dist (ft)									400	400
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	T	R	L	L	T	T	TR	L
Maximum Queue (ft)	140	162	192	209	216	281	241	300	1427	1422	1428	1067
Average Queue (ft)	67	92	106	133	140	98	83	205	1319	1396	1395	980
95th Queue (ft)	122	147	174	192	203	206	200	402	1677	1416	1416	1208
Link Distance (ft)			1337	1337	1337				1378	1378	1378	1022
Upstream Blk Time (%)									44	93	95	58
Queuing Penalty (veh)									0	0	0	0
Storage Bay Dist (ft)	250	250				250	200	200				
Storage Blk Time (%)			0		0	1	3	3	78			
Queuing Penalty (veh)			0		0	2	17	19	454			

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	NB	NB	SB	SB	SB	SB	SB
Directions Served	T	R	L	T	T	R	R
Maximum Queue (ft)	1073	225	224	444	470	225	212
Average Queue (ft)	934	50	21	298	443	223	205
95th Queue (ft)	1413	189	99	500	462	231	223
Link Distance (ft)	1022			421	421		
Upstream Blk Time (%)	69			3	76		
Queuing Penalty (veh)	0			0	0		
Storage Bay Dist (ft)		200	200			200	200
Storage Blk Time (%)	6	2		25	9	64	48
Queuing Penalty (veh)	12	1		5	68	223	168

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	SB	SB	SB
Directions Served	L	R	T	T	R	T	L	T	T
Maximum Queue (ft)	349	545	262	279	130	9	174	252	335
Average Queue (ft)	245	108	148	160	61	0	78	137	198
95th Queue (ft)	354	316	238	251	110	5	138	229	302
Link Distance (ft)		1114	1807	1807	1807	2207		2777	2777
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)	275						190		
Storage Blk Time (%)	7	0					0	1	
Queuing Penalty (veh)	17	0					1	1	

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T
Maximum Queue (ft)	35	154	61	78	88	57	81	69	64	53	151	28
Average Queue (ft)	5	68	26	25	31	21	38	36	24	14	69	2
95th Queue (ft)	22	128	51	56	66	42	72	63	55	39	129	14
Link Distance (ft)		983			1124	1124		1367	1367			4516
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	150		150	175			100			130	200	
Storage Blk Time (%)		0					0	0			0	
Queuing Penalty (veh)		1					0	0			0	

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	11
Average Queue (ft)	1
95th Queue (ft)	7
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	51	21
Average Queue (ft)	27	1
95th Queue (ft)	46	11
Link Distance (ft)	943	711
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	B2002	NB	NB	SB	SB
Directions Served	L	TR	L	T	T	T	R	L	TR
Maximum Queue (ft)	105	116	36	180	11	49	61	46	79
Average Queue (ft)	31	29	3	84	0	13	23	9	29
95th Queue (ft)	74	71	17	153	8	37	49	32	63
Link Distance (ft)	577	577	1420	1420	1456	2346			1262
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)							200	200	
Storage Blk Time (%)					0				
Queuing Penalty (veh)					0				

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	WB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	L	R	L	R	L	T	T	TR	L	T	T	TR
Maximum Queue (ft)	68	65	81	28	162	78	130	194	25	147	178	168
Average Queue (ft)	22	30	29	4	69	19	34	61	3	57	78	77
95th Queue (ft)	54	51	62	19	131	56	88	137	16	113	145	144
Link Distance (ft)						641	641	641		1168	1168	1168
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200	100	200	100	200				200			
Storage Blk Time (%)		0			0					0		
Queuing Penalty (veh)		0			0					0		

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	R	L	T	R	L	T	T	TR	L	T	T	TR
Maximum Queue (ft)	62	224	513	114	32	193	313	387	45	123	128	144
Average Queue (ft)	24	200	213	53	7	89	118	181	7	41	64	62
95th Queue (ft)	49	258	560	99	26	163	234	322	27	92	108	115
Link Distance (ft)			480			1168	1168	1168		1247	1247	1247
Upstream Blk Time (%)			6									
Queuing Penalty (veh)			0									
Storage Bay Dist (ft)	100	200		100	200				200			
Storage Blk Time (%)		20		1		0				0		
Queuing Penalty (veh)		33		6		0				0		

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	SB
Directions Served	T	T	T	R	L	T	T	T	R	L	R	L
Maximum Queue (ft)	69	57	68	33	108	115	69	70	68	42	37	52
Average Queue (ft)	18	9	19	3	45	18	9	15	14	9	9	19
95th Queue (ft)	51	36	52	17	84	67	40	51	45	30	27	45
Link Distance (ft)	784	784	784			1783	1783	1783				
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)				250	200				250	100	100	100
Storage Blk Time (%)						0						0
Queuing Penalty (veh)						0						0

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	T	R	L	R	L	TR	L	TR
Maximum Queue (ft)	45	2	0	0	79	11	42	49	29	63
Average Queue (ft)	9	0	0	0	16	0	11	13	7	12
95th Queue (ft)	30	1	0	0	51	8	32	35	26	40
Link Distance (ft)		590	590				389	389	259	259
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	100			250	200	250				
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	SB
Directions Served	L	T	T	T	L	T	T	T	R	T	R	L
Maximum Queue (ft)	106	87	74	101	95	155	161	134	160	152	71	94
Average Queue (ft)	33	23	17	36	30	69	59	56	70	63	9	33
95th Queue (ft)	77	63	47	77	75	132	127	115	136	120	38	76
Link Distance (ft)		1783	1783	1783		1046	1046	1046		1161		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				200				250		100	100
Storage Blk Time (%)						0				2	0	1
Queuing Penalty (veh)						0				0	0	1

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	119	83
Average Queue (ft)	15	28
95th Queue (ft)	71	61
Link Distance (ft)	232	
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		100
Storage Blk Time (%)		0
Queuing Penalty (veh)		0

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	T	L	R
Maximum Queue (ft)	41	88	108	125	41	102	136	142	244	178	133
Average Queue (ft)	4	30	32	59	4	39	58	59	96	73	54
95th Queue (ft)	22	76	79	108	22	83	118	122	178	141	102
Link Distance (ft)		1046	1046	1046			707	707	707	842	842
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				150	250					
Storage Blk Time (%)				0							
Queuing Penalty (veh)				0							

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	98
Average Queue (ft)	42
95th Queue (ft)	77
Link Distance (ft)	595
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	L	T	T	T	L	R
Maximum Queue (ft)	42	77	123	179	38	70	113	149	116	160	41	71
Average Queue (ft)	5	18	23	83	4	12	50	38	34	46	8	25
95th Queue (ft)	23	57	75	148	22	43	89	100	84	113	30	60
Link Distance (ft)		972	972	972				969	969	969		828
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				250	430	430				150	
Storage Blk Time (%)				0								
Queuing Penalty (veh)				0								

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	81
Average Queue (ft)	31
95th Queue (ft)	61
Link Distance (ft)	828
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	62	40	41	53
Average Queue (ft)	33	21	21	28
95th Queue (ft)	55	42	45	45
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	EB	NB	NB	SB	SB
Directions Served	L	R	L	T	T	TR
Maximum Queue (ft)	34	113	199	6	15	22
Average Queue (ft)	6	57	87	0	1	1
95th Queue (ft)	24	91	163	4	12	11
Link Distance (ft)		680		456	678	678
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	100		200			
Storage Blk Time (%)		1	0			
Queuing Penalty (veh)		0	0			

Intersection: 31: Powerline Road & Airport South Industrial Drive

Movement	WB	WB	SB
Directions Served	L	R	L
Maximum Queue (ft)	58	47	31
Average Queue (ft)	15	8	3
95th Queue (ft)	43	31	17
Link Distance (ft)		152	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 32: Metro Air Parkway & Airport South Industrial Drive

Movement	EB	EB	WB	WB	B117	NB	SB	SB
Directions Served	L	TR	L	TR	T	LTR	L	TR
Maximum Queue (ft)	80	65	63	113	46	67	193	220
Average Queue (ft)	40	32	27	61	3	32	90	115
95th Queue (ft)	69	59	62	95	23	58	158	187
Link Distance (ft)		150		66	104	444	281	281
Upstream Blk Time (%)			0	4	0			
Queuing Penalty (veh)			0	9	0			
Storage Bay Dist (ft)	100		100					
Storage Blk Time (%)	0	0	0	4				
Queuing Penalty (veh)	0	0	1	1				

Intersection: 33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway

Movement	EB	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	L	TR	L	TR	L	T	TR	L	L	T	T	R
Maximum Queue (ft)	253	175	30	177	27	137	220	147	174	271	313	175
Average Queue (ft)	199	20	7	80	3	40	109	57	90	111	124	105
95th Queue (ft)	275	102	27	142	17	84	177	120	150	214	237	184
Link Distance (ft)	208			303		281	281			447	447	
Upstream Blk Time (%)	20									0		
Queuing Penalty (veh)	0									0		
Storage Bay Dist (ft)		150	150		150			150	150			150
Storage Blk Time (%)	30	0		1		0		0	1	2	3	1
Queuing Penalty (veh)	3	0		0		0		0	2	5	15	3

Intersection: 34: Parcel 8 E Driveway & Bayou Way

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 36: Airport South Industrial Drive & Parcel 7C Driveway

Movement	B117	B117	SB
Directions Served		T	LR
Maximum Queue (ft)	14	26	69
Average Queue (ft)	1	2	13
95th Queue (ft)	7	13	46
Link Distance (ft)	66	66	233
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 37: Airport South Industrial Drive & Parcel 3 West Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	60	60
Average Queue (ft)	13	23
95th Queue (ft)	43	53
Link Distance (ft)	124	888
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 38: Airport South Industrial Drive & Parcel 6C Driveway

Movement	B114	WB	SB
Directions Served	T	TR	LR
Maximum Queue (ft)	26	4	62
Average Queue (ft)	1	0	9
95th Queue (ft)	11	3	37
Link Distance (ft)	66	132	297
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 39: Airport South Industrial Drive & Parcel 1 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	73
Average Queue (ft)	30
95th Queue (ft)	61
Link Distance (ft)	490
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive

Movement	EB	WB	NB
Directions Served	TR	L	LTR
Maximum Queue (ft)	6	57	63
Average Queue (ft)	0	9	26
95th Queue (ft)	4	36	56
Link Distance (ft)	149		830
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		100	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 41: Airport South Industrial Drive & Parcel 3 East Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	32	60
Average Queue (ft)	2	13
95th Queue (ft)	15	42
Link Distance (ft)		671
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	150	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	40	59	42	54
Average Queue (ft)	5	9	10	13
95th Queue (ft)	25	35	33	41
Link Distance (ft)			875	315
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 43: Airport South Industrial Drive & Parcel 5 West Driveway

Movement	EB	NB	SB
Directions Served	L	LTR	LTR
Maximum Queue (ft)	50	62	56
Average Queue (ft)	12	26	19
95th Queue (ft)	38	53	47
Link Distance (ft)		420	927
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 44: Airport South Industrial Drive & Parcel 5 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	54
Average Queue (ft)	10
95th Queue (ft)	38
Link Distance (ft)	900
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 69: I-5 Northbound Ramp

Movement	NW	NW
Directions Served	T	T
Maximum Queue (ft)	129	170
Average Queue (ft)	9	13
95th Queue (ft)	64	89
Link Distance (ft)	1093	1093
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 71:

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	31	72
Average Queue (ft)	3	25
95th Queue (ft)	19	57
Link Distance (ft)	369	369
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	751
Average Queue (ft)	727
95th Queue (ft)	750
Link Distance (ft)	567
Upstream Blk Time (%)	100
Queuing Penalty (veh)	1856
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	10	51
Average Queue (ft)	1	4
95th Queue (ft)	9	26
Link Distance (ft)	1015	1015
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 95: Airport South Industrial Drive & Parcel 8 E Driveway

Movement	EB	EB	NB	SB
Directions Served	L	R	LT	TR
Maximum Queue (ft)	78	15	46	105
Average Queue (ft)	35	0	9	56
95th Queue (ft)	63	11	35	88
Link Distance (ft)	123	123	262	1130
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 110:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	78	85
Average Queue (ft)	30	54
95th Queue (ft)	60	80
Link Distance (ft)	467	467
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	30
Average Queue (ft)	2
95th Queue (ft)	15
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement	EB
Directions Served	R
Maximum Queue (ft)	11
Average Queue (ft)	0
95th Queue (ft)	8
Link Distance (ft)	735
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 401: I-5 Southbound Ramp

Movement	
Directions Served	
Maximum Queue (ft)	
Average Queue (ft)	
95th Queue (ft)	
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	96	111
Average Queue (ft)	39	59
95th Queue (ft)	75	91
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	WB	WB	WB	SB	SB
Directions Served	T	T	T	R	L	R
Maximum Queue (ft)	17	6	28	106	375	355
Average Queue (ft)	1	0	1	6	340	328
95th Queue (ft)	9	4	11	46	363	344
Link Distance (ft)	3005	289	289	289	316	316
Upstream Blk Time (%)					100	95
Queuing Penalty (veh)					0	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB	EB
Directions Served	T	T	R
Maximum Queue (ft)	178	409	491
Average Queue (ft)	33	43	39
95th Queue (ft)	283	332	320
Link Distance (ft)	883	883	883
Upstream Blk Time (%)	0	1	1
Queuing Penalty (veh)	0	3	6
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1003: Del Paso Road

Movement	EB	EB	WB	WB	WB
Directions Served	T	TR	T	T	T
Maximum Queue (ft)	690	697	43	62	66
Average Queue (ft)	169	174	1	4	6
95th Queue (ft)	635	642	31	45	49
Link Distance (ft)	748	748	178	178	178
Upstream Blk Time (%)	5	2	0	0	0
Queuing Penalty (veh)	30	15	0	0	0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB	WB
Directions Served	T	T	T	T	TR
Maximum Queue (ft)	252	276	254	11	183
Average Queue (ft)	132	129	92	0	7
95th Queue (ft)	307	318	267	6	86
Link Distance (ft)	211	211	211	370	370
Upstream Blk Time (%)	27	10	3		0
Queuing Penalty (veh)	167	60	21		0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	575	569	539	271	603	640	334
Average Queue (ft)	407	288	227	14	140	196	143
95th Queue (ft)	774	612	545	128	377	437	259
Link Distance (ft)	370	370	370	683	683	683	683
Upstream Blk Time (%)	64	20	9		0	0	
Queuing Penalty (veh)	394	123	54		0	0	
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 1006: I-5 Southbound Ramps

Movement	NB	NB
Directions Served	R	R
Maximum Queue (ft)	139	144
Average Queue (ft)	29	33
95th Queue (ft)	118	132
Link Distance (ft)	248	248
Upstream Blk Time (%)		0
Queuing Penalty (veh)		0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	234	227
Average Queue (ft)	141	140
95th Queue (ft)	243	234
Link Distance (ft)	152	152
Upstream Blk Time (%)	31	33
Queuing Penalty (veh)	276	296
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	207
Average Queue (ft)	82
95th Queue (ft)	159
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	WB	WB	WB	WB
Directions Served	T	T	T	R
Maximum Queue (ft)	1325	1385	1369	225
Average Queue (ft)	419	1032	1348	187
95th Queue (ft)	1172	1748	1364	324
Link Distance (ft)	1337	1337	1337	
Upstream Blk Time (%)	0	2	42	
Queuing Penalty (veh)	1	17	404	
Storage Bay Dist (ft)				200
Storage Blk Time (%)			95	0
Queuing Penalty (veh)			167	2

Intersection: 1302: West Elkhorn Boulevard

Movement	WB	WB	WB
Directions Served	T	T	T
Maximum Queue (ft)	150	314	334
Average Queue (ft)	9	162	264
95th Queue (ft)	84	361	314
Link Distance (ft)	260	260	260
Upstream Blk Time (%)	0	1	6
Queuing Penalty (veh)	0	16	61
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1401: West Elkhorn Boulevard

Movement	WB	WB	WB
Directions Served	T	T	R
Maximum Queue (ft)	161	456	225
Average Queue (ft)	5	431	225
95th Queue (ft)	67	454	226
Link Distance (ft)	274	274	
Upstream Blk Time (%)	0	98	
Queuing Penalty (veh)	0	1045	
Storage Bay Dist (ft)			200
Storage Blk Time (%)		3	99
Queuing Penalty (veh)		54	435

Intersection: 1402: West Elkhorn Boulevard

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 10028

Summary of All Intervals

Run Number	3	4	5	6	7	Avg
Start Time	4:45	4:45	4:45	4:45	4:45	4:45
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	75	75	75	75	75	75
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	26550	26937	26553	26697	26353	26614
Vehs Exited	25743	26244	26055	26018	25862	25981
Starting Vehs	1246	1303	1250	1319	1403	1292
Ending Vehs	2053	1996	1748	1998	1894	1921
Travel Distance (mi)	24434	24808	24630	24635	24326	24567
Travel Time (hr)	1997.8	2111.6	1902.4	2165.2	2127.2	2060.8
Total Delay (hr)	1303.8	1407.6	1201.5	1465.7	1436.7	1363.1
Total Stops	52057	52526	51259	56142	51751	52744
Fuel Used (gal)	1163.5	1200.0	1145.8	1204.4	1194.3	1181.6

Interval #0 Information Seeding

Start Time	4:45
End Time	5:00
Total Time (min)	15
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Growth Factors.	

Run Number	3	4	5	6	7	Avg
Vehs Entered	26550	26937	26553	26697	26353	26614
Vehs Exited	25743	26244	26055	26018	25862	25981
Starting Vehs	1246	1303	1250	1319	1403	1292
Ending Vehs	2053	1996	1748	1998	1894	1921
Travel Distance (mi)	24434	24808	24630	24635	24326	24567
Travel Time (hr)	1997.8	2111.6	1902.4	2165.2	2127.2	2060.8
Total Delay (hr)	1303.8	1407.6	1201.5	1465.7	1436.7	1363.1
Total Stops	52057	52526	51259	56142	51751	52744
Fuel Used (gal)	1163.5	1200.0	1145.8	1204.4	1194.3	1181.6

1: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBR	NBT	SBT	All
Denied Delay (hr)	0.0	0.4	0.0	0.0	0.4
Denied Del/Veh (s)	1.2	2.6	0.0	0.0	1.1
Total Delay (hr)	0.0	0.2	0.0	0.0	0.2
Total Del/Veh (s)	9.2	1.1	0.1	0.3	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	7.3	0.0	0.0	0.0	0.0

2: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	0.2	0.0	0.1
Total Delay (hr)	0.2	0.1	0.0	0.1	0.0	0.3
Total Del/Veh (s)	5.7	2.8	1.9	0.9	0.4	2.4
Stop Delay (hr)	0.2	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	4.5	3.1	0.4	0.0	0.0	1.6

3: Metro Air Parkway & I-5 Northbound Ramp Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.0	16.1	1.8	18.0
Denied Del/Veh (s)	0.1	0.0	0.4	0.0	0.1	35.3	37.8	16.1
Total Delay (hr)	2.3	0.1	2.7	1.7	0.1	34.6	2.3	44.0
Total Del/Veh (s)	17.6	2.3	10.2	14.3	3.5	75.4	50.6	39.1
Stop Delay (hr)	2.0	0.0	1.9	1.1	0.0	28.0	1.7	34.8
Stop Del/Veh (s)	14.9	0.7	7.1	9.2	0.2	61.1	37.5	31.0

4: Metro Air Parkway & I-5 Southbound Ramp Performance by movement

Movement	EBL	EBT	EBR	NBT	NBR	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.5	0.0	0.1	0.1
Total Delay (hr)	0.7	0.0	0.3	1.0	1.3	2.5	5.8	11.5
Total Del/Veh (s)	17.5	13.3	7.5	7.0	6.7	11.8	18.1	12.3
Stop Delay (hr)	0.6	0.0	0.3	0.4	0.4	0.8	0.2	2.7
Stop Del/Veh (s)	15.8	10.2	7.1	2.8	2.1	3.9	0.7	2.9

5: Garden Highway & Power Line Road Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.1	0.2
Total Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.0	0.2
Total Del/Veh (s)	1.3	0.6	2.7	0.8	4.8	3.2	2.4
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.4	0.0	0.0	0.0	2.2	1.8	0.9

6: Power Line Road & Del Paso Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	3.1	0.5	2.2	0.3	0.2	1.2	0.5	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.8	0.0	1.5	0.0	0.0	0.0	0.0	0.1

7: El Centro Road & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0	0.0	2.4	1.0	2.6	0.0	0.0	0.0
Total Delay (hr)	0.5	4.1	0.5	7.6	4.3	0.5	1.4	5.2	6.5	24.3	2.0	0.0
Total Del/Veh (s)	50.7	49.6	11.0	58.7	31.4	7.1	49.0	49.9	48.1	176.0	32.8	6.4
Stop Delay (hr)	0.5	3.8	0.4	6.7	3.3	0.4	1.3	4.1	5.9	23.0	1.6	0.0
Stop Del/Veh (s)	48.7	45.1	9.9	52.0	23.8	5.2	43.0	39.3	43.5	167.2	27.5	5.9

7: El Centro Road & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.6
Total Delay (hr)	56.9
Total Del/Veh (s)	60.0
Stop Delay (hr)	51.0
Stop Del/Veh (s)	53.7

8: Hovnian Drive & Del Paso Road Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	2.1	0.1	0.0	0.0	4.2	0.1	0.3	0.2
Total Delay (hr)	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.6
Total Del/Veh (s)	6.4	1.2	12.6	4.9	1.4	9.5	2.0	10.0	6.5
Stop Delay (hr)	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4
Stop Del/Veh (s)	4.3	1.0	9.6	2.5	0.8	8.3	2.3	8.8	4.7

9: I-5 Northbound Ramp & Del Paso Road Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	1.0	3.8	4.8
Denied Del/Veh (s)	0.0	0.0	9.6	9.8	4.7
Total Delay (hr)	17.5	1.8	13.5	49.6	82.4
Total Del/Veh (s)	88.4	5.2	131.3	126.6	79.5
Stop Delay (hr)	16.4	0.8	11.7	41.5	70.4
Stop Del/Veh (s)	82.5	2.5	114.0	105.7	67.9

10: Del Paso Road & I-5 Southbound Ramps Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (hr)	15.8	2.8	0.9	10.8	2.0	32.3
Total Del/Veh (s)	91.0	11.9	4.5	95.1	21.5	39.5
Stop Delay (hr)	15.7	1.7	0.0	10.4	1.7	29.5
Stop Del/Veh (s)	90.2	7.2	0.0	91.7	19.0	36.1

11: East Commerce Way & Del Paso Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.5	0.2	0.7
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.6	2.2	2.5	0.2	0.3	4.6	2.6	4.8
Total Delay (hr)	63.7	19.8	1.9	12.5	21.0	4.8	11.2	7.8	2.4	37.9	2.4	1.1
Total Del/Veh (s)	357.5	64.5	24.4	130.8	61.4	42.4	136.0	43.7	22.7	309.4	34.9	7.1
Stop Delay (hr)	61.7	15.5	1.2	11.6	16.4	3.5	10.5	5.9	2.0	35.8	1.9	0.1
Stop Del/Veh (s)	346.6	50.5	14.8	121.4	47.8	30.5	126.8	33.2	18.3	292.6	28.4	0.8

11: East Commerce Way & Del Paso Road Performance by movement

Movement	All
Denied Delay (hr)	2.4
Denied Del/Veh (s)	1.3
Total Delay (hr)	186.6
Total Del/Veh (s)	102.1
Stop Delay (hr)	166.1
Stop Del/Veh (s)	90.9

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.1	0.0	0.1	0.5	0.0	0.8	0.3	0.0	0.4	2.6	0.2	0.1
Total Delay (hr)	0.3	1.6	0.6	1.6	2.3	0.0	3.8	2.1	0.6	0.4	5.6	0.0
Total Del/Veh (s)	38.9	27.0	9.1	39.1	18.6	4.0	45.7	13.0	9.3	43.3	21.6	2.2
Stop Delay (hr)	0.2	1.3	0.5	1.4	1.8	0.0	3.1	1.0	0.2	0.4	3.7	0.0
Stop Del/Veh (s)	35.9	21.6	7.6	35.5	14.2	3.5	36.8	6.2	2.8	38.4	14.3	2.5

12: Metro Air Parkway & West Elkhorn boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.2
Total Delay (hr)	18.8
Total Del/Veh (s)	21.3
Stop Delay (hr)	13.5
Stop Del/Veh (s)	15.3

13: SR 99 Northbound Ramps & West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	52.2	321.9	374.1
Denied Del/Veh (s)	0.0	0.0	552.5	555.6	287.2
Total Delay (hr)	20.3	1.6	3.8	12.2	37.9
Total Del/Veh (s)	69.0	4.6	53.4	27.4	32.9
Stop Delay (hr)	17.6	0.7	3.1	4.3	25.7
Stop Del/Veh (s)	59.7	2.0	44.0	9.6	22.3

14: West Elkhorn Boulevard & SR 99 Southbound Ramps Performance by movement

Movement	EBT	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.3	3.0	0.5
Total Delay (hr)	2.3	1.9	0.6	1.7	6.4
Total Del/Veh (s)	7.9	8.6	11.9	16.2	9.7
Stop Delay (hr)	1.2	1.1	0.5	1.3	4.0
Stop Del/Veh (s)	4.0	4.9	9.8	12.9	6.1

15: East Commerce Way & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	2.4	0.3	0.3	0.7	1.1	2.8	0.0	0.2	3.5
Total Delay (hr)	22.5	20.5	1.4	4.6	12.7	0.3	4.1	5.2	2.7	0.1	1.5	0.8
Total Del/Veh (s)	119.6	112.2	16.4	85.9	49.9	56.8	62.4	10.4	30.3	62.5	39.6	12.1
Stop Delay (hr)	18.9	13.7	0.5	4.2	10.3	0.3	3.6	3.4	2.5	0.1	1.3	0.7
Stop Del/Veh (s)	100.6	29.4	6.1	70.8	40.5	49.1	54.8	26.2	20.1	58.9	35.8	11.2

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

15: East Commerce Way & Grand Park Drive Performance by movement

Movement	All
Denied Delay (hr)	1.0
Denied Del/Veh (s)	0.7
Total Delay (hr)	77.4
Total Del/Veh (s)	52.5
Stop Delay (hr)	59.5
Stop Del/Veh (s)	40.3

16: East Commerce Way & North Park Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.2	0.0	0.0	0.0	0.1	0.1	0.3
Denied Del/Veh (s)	3.3	0.6	0.0	0.0	1.3	0.2	0.4
Total Delay (hr)	1.2	0.2	4.2	0.7	1.8	1.7	9.9
Total Del/Veh (s)	21.7	8.6	11.9	7.5	39.7	7.4	12.2
Stop Delay (hr)	1.1	0.2	1.9	0.3	1.6	0.6	5.7
Stop Del/Veh (s)	18.8	8.0	5.4	3.4	34.2	2.6	7.0

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	3.7	0.3	3.6	3.4	0.3	0.2	3.8	0.2	3.7	0.0	0.0	0.0
Total Delay (hr)	0.1	0.5	0.0	0.4	0.6	0.1	0.5	0.4	0.1	0.7	1.0	0.0
Total Del/Veh (s)	22.3	12.6	3.7	22.0	10.0	2.4	18.7	16.9	3.3	23.8	5.1	5.4
Stop Delay (hr)	0.1	0.3	0.0	0.4	0.3	0.1	0.4	0.3	0.1	0.5	0.3	0.0
Stop Del/Veh (s)	20.2	8.6	3.0	19.4	5.5	1.8	16.2	12.0	2.6	17.4	1.6	4.0

17: El Centro Rd & Natomas Central Drive/Arena Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.3
Denied Del/Veh (s)	0.7
Total Delay (hr)	4.4
Total Del/Veh (s)	9.4
Stop Delay (hr)	2.8
Stop Del/Veh (s)	6.0

18: Powerline Road & Bayou Road South Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.1	0.0	0.0	0.0	0.0	0.1
Total Delay (hr)	0.2	0.1	0.0	0.0	0.1	0.0	0.4
Total Del/Veh (s)	5.9	3.5	0.6	0.8	3.9	2.9	3.5
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	3.4	2.5	0.3	0.0	0.4	0.3	1.3

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.3	0.4	0.0	0.0	0.0	0.5	0.0	0.7	3.9	0.2	0.2
Total Delay (hr)	0.7	1.8	0.0	0.7	1.2	0.0	1.2	0.1	0.0	0.2	0.3	0.1
Total Del/Veh (s)	29.7	21.5	16.0	29.4	7.1	4.1	26.6	7.7	3.1	37.1	26.6	8.2
Stop Delay (hr)	0.7	1.2	0.0	0.7	0.8	0.0	1.0	0.0	0.0	0.2	0.2	0.1
Stop Del/Veh (s)	26.6	14.4	11.5	27.1	4.9	0.0	23.0	4.9	2.1	34.3	18.8	6.6

20: Powerline Road & West Elkhorn Boulevard Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	6.4
Total Del/Veh (s)	16.2
Stop Delay (hr)	5.0
Stop Del/Veh (s)	12.5

21: Metro Air Parkway & Pacific Gateway Drive Performance by movement

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.5	0.1	2.1
Denied Del/Veh (s)	3.7	3.8	3.9	4.0	0.4	0.0	0.0	2.9	3.7	8.5	2.2
Total Delay (hr)	0.7	0.9	1.4	0.0	1.0	4.7	0.3	0.2	38.8	1.6	49.6
Total Del/Veh (s)	26.0	21.3	35.1	6.3	41.8	12.3	11.8	74.0	92.7	134.0	51.0
Stop Delay (hr)	0.6	0.8	1.2	0.0	0.9	2.8	0.2	0.2	33.1	1.5	41.3
Stop Del/Veh (s)	23.3	20.2	32.0	6.4	38.3	7.2	7.8	63.6	78.9	123.7	42.5

22: Metro Air Parkway & Meister Way Performance by movement

Movement	EBT	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Denied Del/Veh (s)	0.2	4.2	3.7	3.8	0.1	0.0	0.1	0.3	0.0	0.4
Total Delay (hr)	0.1	0.1	2.1	0.1	0.1	6.0	2.7	1.1	5.4	17.6
Total Del/Veh (s)	35.3	9.9	31.3	7.2	35.7	20.0	28.3	34.5	15.1	20.2
Stop Delay (hr)	0.1	0.1	1.8	0.1	0.1	3.3	1.7	0.9	2.6	10.6
Stop Del/Veh (s)	30.4	9.6	27.4	6.5	29.7	10.9	17.6	28.2	7.3	12.2

23: Badiee Drive & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
Denied Del/Veh (s)	0.0	0.2	0.6	0.0	0.4	4.0	3.8	3.9	0.9
Total Delay (hr)	1.3	0.0	0.2	1.5	0.1	0.1	0.3	1.3	4.8
Total Del/Veh (s)	8.8	2.7	27.6	9.8	5.3	23.1	5.6	24.1	10.9
Stop Delay (hr)	0.8	0.0	0.2	0.6	0.0	0.0	0.3	1.1	3.0
Stop Del/Veh (s)	5.4	2.0	22.3	3.6	1.4	21.5	5.0	21.0	6.8

24: Ameri Drive & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.0	0.0	0.6	0.2	0.0	0.4	0.1	0.1	0.1	0.1	0.1	0.1
Total Delay (hr)	0.0	0.2	0.0	0.0	0.3	0.0	0.1	0.1	0.1	0.0	0.0	1.0
Total Del/Veh (s)	3.7	1.9	1.8	5.2	2.2	1.7	10.8	3.1	10.8	12.7	4.0	2.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.4
Stop Del/Veh (s)	1.6	0.3	0.3	1.9	0.2	0.1	9.8	3.0	8.9	9.7	3.8	1.1

25: Lone Tree Road & West Elkhorn Boulevard Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBT	NBR	SBL	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.2	0.1	1.1
Denied Del/Veh (s)	0.4	0.0	0.0	0.0	0.1	0.3	3.5	7.0	5.9	7.4	1.8
Total Delay (hr)	1.7	3.3	0.1	3.2	0.1	0.4	0.2	2.9	0.6	0.1	12.5
Total Del/Veh (s)	42.5	14.4	42.8	22.1	6.1	33.1	9.3	27.0	17.3	8.9	20.4
Stop Delay (hr)	1.5	2.0	0.1	2.4	0.1	0.3	0.1	2.5	0.4	0.1	9.5
Stop Del/Veh (s)	37.2	8.8	38.9	16.1	4.3	28.2	8.4	23.1	12.6	7.0	15.4

26: Lakestone Drive & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0
Total Delay (hr)	0.0	4.0	0.0	0.1	1.0	0.3	0.8	6.2
Total Del/Veh (s)	26.1	12.4	6.8	23.2	6.7	12.5	9.7	10.7
Stop Delay (hr)	0.0	1.8	0.0	0.1	0.5	0.2	0.7	3.3
Stop Del/Veh (s)	22.8	5.4	1.9	21.4	3.6	10.9	8.2	5.8

27: Wave Street & West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	1.0	0.2	0.2	0.1	1.6
Total Del/Veh (s)	2.9	4.1	1.5	6.4	2.8
Stop Delay (hr)	0.1	0.0	0.0	0.1	0.2
Stop Del/Veh (s)	0.2	0.2	0.1	6.2	0.4

28: Waterside Avenue & West Elkhorn Boulevard Performance by movement

Movement	EBU	EBT	EBR	WBL	WBT	NBR	All
Denied Delay (hr)	0.0	0.1	0.0	0.1	0.0	0.0	0.1
Denied Del/Veh (s)	0.2	0.1	0.7	0.3	0.0	0.2	0.2
Total Delay (hr)	0.1	10.8	0.0	10.0	0.7	1.4	23.0
Total Del/Veh (s)	44.8	26.4	12.1	56.3	4.3	14.2	26.8
Stop Delay (hr)	0.1	7.1	0.0	8.5	0.4	1.3	17.4
Stop Del/Veh (s)	41.8	17.4	6.7	47.7	2.4	13.1	20.2

29: Bayou Way & Callison Drive Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.2	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.2	0.2	0.0	0.4
Total Del/Veh (s)	5.1	3.1	3.5	1.4	8.5	2.5	2.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.1	2.6	1.8	0.2	2.4	1.7	0.9

30: El Centro Road & Hawkview Drive Performance by movement

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	25.4	0.0	0.0	1.1	0.0	26.6
Denied Del/Veh (s)	214.9	0.0	0.0	9.4	14.1	62.8
Total Delay (hr)	15.2	0.5	0.2	3.1	0.0	19.0
Total Del/Veh (s)	154.4	7.6	1.3	26.5	7.3	47.2
Stop Delay (hr)	15.8	0.3	0.0	2.6	0.0	18.8
Stop Del/Veh (s)	160.7	4.7	0.0	22.8	6.9	46.8

31: Powerline Road & Airport South Industrial Drive Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.1	3.1	0.2	0.0	0.2
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.9	1.9	0.4	0.1	1.2	0.8	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	3.7	2.3	0.0	0.0	0.5	0.1	0.6

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0
Total Delay (hr)	0.4	0.1	0.0	0.0	0.1	0.4	0.0	0.3	0.0	0.4	0.1	0.1
Total Del/Veh (s)	6.9	7.4	3.2	7.0	9.1	5.8	8.2	10.4	4.6	9.7	9.3	6.0
Stop Delay (hr)	0.3	0.0	0.0	0.0	0.1	0.4	0.0	0.2	0.0	0.2	0.1	0.1
Stop Del/Veh (s)	5.4	3.5	3.0	5.6	6.8	6.0	5.4	5.6	3.9	6.1	3.7	4.1

32: Metro Air Parkway & Airport South Industrial Drive Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.0
Total Delay (hr)	2.0
Total Del/Veh (s)	7.4
Stop Delay (hr)	1.5
Stop Del/Veh (s)	5.4

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.1	4.3	4.1	4.1	0.1	0.2	0.0	0.2	0.0	0.2	0.0	0.2
Total Delay (hr)	2.7	0.0	0.0	0.0	0.0	0.7	0.1	4.3	0.0	1.6	1.1	0.9
Total Del/Veh (s)	26.5	13.8	3.9	43.1	25.8	14.9	38.5	25.6	25.2	32.3	12.6	8.1
Stop Delay (hr)	2.4	0.0	0.0	0.0	0.0	0.6	0.0	3.4	0.0	1.4	0.7	0.4
Stop Del/Veh (s)	23.1	10.6	2.4	40.4	21.5	13.6	35.9	20.4	22.4	28.0	7.9	3.9

33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	11.4
Total Del/Veh (s)	20.2
Stop Delay (hr)	9.0
Stop Del/Veh (s)	16.0

34: Parcel 8 E Driveway & Bayou Way Performance by movement

Movement	NBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	1.2	1.2
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.3	0.3

36: Airport South Industrial Drive & Parcel 7C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.1	0.0	0.0	0.0	0.2
Total Del/Veh (s)	1.0	1.0	0.1	6.1	3.9	1.1
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.2	0.2	4.5	3.7	0.2

37: Airport South Industrial Drive & Parcel 3 West Driveway Performance by movement

Movement	EBL	EBT	WBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.1
Total Del/Veh (s)	2.2	0.4	0.4	3.6	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.6	0.0	0.0	3.1	0.5

38: Airport South Industrial Drive & Parcel 6C Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.6	0.4	0.0	4.4	2.5	0.6
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	2.6	2.4	0.1

39: Airport South Industrial Drive & Parcel 1 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0
Total Delay (hr)	0.0	0.0	0.0	0.2	0.2
Total Del/Veh (s)	0.4	0.3	0.0	5.3	1.7
Stop Delay (hr)	0.0	0.0	0.0	0.1	0.1
Stop Del/Veh (s)	0.0	0.0	0.0	3.0	0.8

40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	NBL	NBR	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Total Del/Veh (s)	1.8	0.5	0.0	1.2	0.1	5.9	3.1	2.3	1.9
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Stop Del/Veh (s)	0.4	0.0	0.0	0.0	0.0	3.4	2.4	2.3	1.2

41: Airport South Industrial Drive & Parcel 3 East Driveway Performance by movement

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.4	0.3	0.2	0.0	5.2	3.0	0.5
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	1.3	0.0	0.0	0.0	3.4	3.0	0.2

42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive Performance by movement

Movement	EBL	EBT	WBL	WBT	WBR	NBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	2.2	0.2	2.1	0.2	0.0	3.0	6.0	3.0	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stop Del/Veh (s)	1.0	0.0	0.8	0.0	0.0	2.8	4.3	2.8	0.4

43: Airport South Industrial Drive & Parcel 5 West Driveway Performance by movement

Movement	EBL	EBT	EBR	WBT	NBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.1	0.3
Total Del/Veh (s)	1.3	0.8	0.2	0.4	6.7	3.9	2.3
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Stop Del/Veh (s)	0.1	0.0	0.0	0.0	4.5	3.3	1.3

44: Airport South Industrial Drive & Parcel 5 East Driveway Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1
Total Del/Veh (s)	1.3	0.3	0.3	4.4	1.2
Stop Delay (hr)	0.0	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.3	0.3	2.6	0.3

69: I-5 Northbound Ramp Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.4	0.4
Total Delay (hr)	0.0	0.0	1.0	1.0
Total Del/Veh (s)	1.0	1.1	2.4	2.2
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.1	0.1

71: Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.1	0.1
Total Del/Veh (s)	2.5	2.5
Stop Delay (hr)	0.0	0.0
Stop Del/Veh (s)	0.8	0.8

74: Performance by movement

Movement	EBR	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.9	2.9
Total Del/Veh (s)	15.6	15.6
Stop Delay (hr)	2.1	2.1
Stop Del/Veh (s)	11.2	11.2

86: I-5 Northbound Ramp Performance by movement

Movement	WBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.3	0.3
Total Del/Veh (s)	5.9	5.9
Stop Delay (hr)	0.1	0.1
Stop Del/Veh (s)	1.3	1.3

95: Airport South Industrial Drive & Parcel 8 E Driveway Performance by movement

Movement	EBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.2	0.1
Total Delay (hr)	0.2	0.0	0.0	0.1	0.3
Total Del/Veh (s)	4.3	5.8	7.9	2.5	4.0
Stop Delay (hr)	0.1	0.0	0.0	0.0	0.2
Stop Del/Veh (s)	2.9	2.7	2.8	1.9	2.6

101: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.1	0.2	0.1
Total Delay (hr)	0.2	0.0	0.0	0.3
Total Del/Veh (s)	1.0	0.3	0.4	0.7
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

102: Airport Blvd & I-5 Northbound Ramp Performance by movement

Movement	NBT	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.6	0.3	0.3
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0	0.0

110: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.0	1.0
Total Del/Veh (s)	5.1	5.1
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.6	1.6

201: Airport Blvd & I-5 Southbound Ramp Performance by movement

Movement	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.2	0.2
Total Del/Veh (s)	0.5	1.2	1.1	0.9
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.1

203: I-5 Southbound Ramp Performance by movement

Movement	WBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.0	0.0	0.0
Total Del/Veh (s)	0.2	4.4	0.3
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.9	0.0

204: I-5 Southbound Ramp Performance by movement

Movement	EBR	NBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.0	0.1
Total Del/Veh (s)	1.7	0.1	1.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

401: I-5 Southbound Ramp Performance by movement

Movement	EBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.1	0.6	0.6
Total Del/Veh (s)	1.0	1.8	1.6
Stop Delay (hr)	0.0	0.0	0.0
Stop Del/Veh (s)	0.0	0.0	0.0

402: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	2.3	2.3
Total Del/Veh (s)	7.3	7.3
Stop Delay (hr)	1.0	1.0
Stop Del/Veh (s)	3.2	3.2

701: Del Paso Rd/Del Paso Road & Balancing Dwy Performance by movement

Movement	EBT	WBT	WBR	SBL	All
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	2.4	0.7
Total Delay (hr)	0.1	0.1	0.7	1.5	2.3
Total Del/Veh (s)	2.3	1.9	5.3	15.7	7.6
Stop Delay (hr)	0.0	0.0	0.0	1.3	1.3
Stop Del/Veh (s)	0.2	0.2	0.2	13.7	4.3

1002: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	21.0	5.1	0.5	26.6
Total Del/Veh (s)	106.7	36.8	1.7	40.6
Stop Delay (hr)	20.5	4.4	0.0	25.0
Stop Del/Veh (s)	104.2	31.8	0.1	38.0

1003: Del Paso Road Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	28.0	6.5	0.6	35.2
Total Del/Veh (s)	132.5	103.3	1.4	49.4
Stop Delay (hr)	26.2	6.0	0.0	32.2
Stop Del/Veh (s)	123.9	94.0	0.1	45.2

1004: Del Paso Road/Del Paso Rd Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0
Total Delay (hr)	11.0	0.9	1.0	12.9
Total Del/Veh (s)	20.0	2.7	5.6	12.1
Stop Delay (hr)	8.6	0.1	0.1	8.8
Stop Del/Veh (s)	15.5	0.3	0.7	8.2

1005: Del Paso Rd/Del Paso Road Performance by movement

Movement	EBT	WBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	35.9	5.7	41.6
Total Del/Veh (s)	65.0	10.0	37.1
Stop Delay (hr)	31.1	1.2	32.4
Stop Del/Veh (s)	56.5	2.2	28.9

1006: I-5 Southbound Ramps Performance by movement

Movement	NBR	SBT	All
Denied Delay (hr)	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0
Total Delay (hr)	0.4	13.2	13.5
Total Del/Veh (s)	1.7	62.6	32.4
Stop Delay (hr)	0.0	11.5	11.5
Stop Del/Veh (s)	0.0	54.9	27.7

1007: Performance by movement

Movement	EBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	0.8	0.8
Total Del/Veh (s)	4.0	4.0
Stop Delay (hr)	0.3	0.3
Stop Del/Veh (s)	1.6	1.6

1011: Performance by movement

Movement	SBT	All
Denied Delay (hr)	0.0	0.0
Denied Del/Veh (s)	0.0	0.0
Total Delay (hr)	1.6	1.6
Total Del/Veh (s)	11.9	11.9
Stop Delay (hr)	0.6	0.6
Stop Del/Veh (s)	4.9	4.9

1301: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	1.7	1.8	0.3	3.8
Total Del/Veh (s)	2.3	5.2	8.1	3.4
Stop Delay (hr)	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	0.1	0.1	0.2	0.1

1302: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.8	0.0	0.5	1.4
Total Del/Veh (s)	2.7	1.1	1.3	1.9
Stop Delay (hr)	0.2	0.0	0.0	0.2
Stop Del/Veh (s)	0.5	0.0	0.1	0.2

1401: West Elkhorn Boulevard Performance by movement

Movement	EBT	WBT	WBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Delay (hr)	0.6	0.2	0.2	1.1
Total Del/Veh (s)	1.9	1.0	1.3	1.5
Stop Delay (hr)	0.0	0.0	0.0	0.0
Stop Del/Veh (s)	0.1	0.0	0.0	0.1

1402: West Elkhorn Boulevard Performance by movement

Movement	EBT	EBR	WBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.4	0.0	0.1
Total Delay (hr)	1.2	0.8	0.7	2.7
Total Del/Veh (s)	3.6	5.9	2.3	3.5
Stop Delay (hr)	0.1	0.0	0.0	0.1
Stop Del/Veh (s)	0.2	0.1	0.1	0.1

Total Network Performance

Denied Delay (hr)	446.3
Denied Del/Veh (s)	58.4
Total Delay (hr)	916.8
Total Del/Veh (s)	118.3
Stop Delay (hr)	723.5
Stop Del/Veh (s)	93.3

Intersection: 1: Airport Blvd & I-5 Northbound Ramp

Movement	WB
Directions Served	L
Maximum Queue (ft)	21
Average Queue (ft)	3
95th Queue (ft)	17
Link Distance (ft)	1420
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 2: Airport Blvd & I-5 Southbound Ramp

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	81	6
Average Queue (ft)	37	0
95th Queue (ft)	66	4
Link Distance (ft)	104	295
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3: Metro Air Parkway & I-5 Northbound Ramp

Movement	WB	WB	WB	WB	NB	NB	SB	SB	SB	SB
Directions Served	L	L	TR	R	T	T	T	T	T	R
Maximum Queue (ft)	208	216	298	254	164	159	630	687	687	375
Average Queue (ft)	97	104	153	119	71	78	373	622	643	365
95th Queue (ft)	170	181	253	220	134	141	649	705	704	456
Link Distance (ft)		352	352		839	839	641	641	641	
Upstream Blk Time (%)			0				0	5	16	
Queuing Penalty (veh)			1				2	30	87	
Storage Bay Dist (ft)	300			170						225
Storage Blk Time (%)			6	1		0			73	0
Queuing Penalty (veh)			30	3		0			127	0

Intersection: 4: Metro Air Parkway & I-5 Southbound Ramp

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	LT	R	T	T	R	T	T	R
Maximum Queue (ft)	132	121	109	170	183	225	693	694
Average Queue (ft)	64	52	28	39	69	54	154	63
95th Queue (ft)	117	96	73	102	139	140	463	357
Link Distance (ft)	174	174	447	447		839	839	839
Upstream Blk Time (%)	0	0					0	0
Queuing Penalty (veh)	0	0					0	0
Storage Bay Dist (ft)					200			
Storage Blk Time (%)					0			
Queuing Penalty (veh)					0			

Intersection: 5: Garden Highway & Power Line Road

Movement	EB	WB	SB
Directions Served	LT	TR	LR
Maximum Queue (ft)	27	4	82
Average Queue (ft)	2	0	37
95th Queue (ft)	12	3	64
Link Distance (ft)	1110	1148	2214
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 6: Power Line Road & Del Paso Road

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	54	10
Average Queue (ft)	20	0
95th Queue (ft)	45	5
Link Distance (ft)	4644	2539
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 7: El Centro Road & Del Paso Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	L	L	T	T	R	R	L	T
Maximum Queue (ft)	79	207	260	177	232	269	334	400	162	47	210	951
Average Queue (ft)	27	81	120	54	147	166	73	179	60	7	75	246
95th Queue (ft)	63	174	227	144	232	257	246	333	123	32	160	793
Link Distance (ft)		289	289				883	883				4516
Upstream Blk Time (%)		1	2									
Queuing Penalty (veh)		1	5									
Storage Bay Dist (ft)	195			140	205	205			590	590	280	
Storage Blk Time (%)		3	12	0	3	8	0					2
Queuing Penalty (veh)		1	19	0	8	19	0					2

Intersection: 7: El Centro Road & Del Paso Road

Movement	NB	NB	SB	SB	SB	SB	SB	B127	B127
Directions Served	T	R	L	L	T	T	R	T	T
Maximum Queue (ft)	1080	249	330	375	495	327	48	470	450
Average Queue (ft)	231	51	303	353	419	89	9	329	178
95th Queue (ft)	960	212	402	444	645	255	28	633	480
Link Distance (ft)	4516				405	405		456	456
Upstream Blk Time (%)					60	0		22	0
Queuing Penalty (veh)					257	0		94	1
Storage Bay Dist (ft)		160	285	285			130		
Storage Blk Time (%)	5	13	20	73	0	0			
Queuing Penalty (veh)	27	25	24	88	2	0			

Intersection: 8: Hovnian Drive & Del Paso Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	T	T	R	L	T	R	L	TR	L	LT
Maximum Queue (ft)	60	51	19	79	64	47	24	22	20	32
Average Queue (ft)	13	11	2	30	9	6	3	8	1	10
95th Queue (ft)	41	35	10	66	40	28	15	22	8	28
Link Distance (ft)	1136	1136			3005	3005		546		1094
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)			140	250			150		135	
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 9: I-5 Northbound Ramp & Del Paso Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	L	L	R	R	R
Maximum Queue (ft)	326	318	181	180	210	225	1967	2088	540	495
Average Queue (ft)	271	259	54	65	89	116	774	892	408	344
95th Queue (ft)	381	361	136	155	182	243	2110	2198	642	582
Link Distance (ft)	178	178	212	212	212		2328	2328		
Upstream Blk Time (%)	68	62	0	0	0		10	10		
Queuing Penalty (veh)	332	301	0	0	1		0	0		
Storage Bay Dist (ft)						135			450	450
Storage Blk Time (%)						2	28	31	25	3
Queuing Penalty (veh)						4	50	280	115	12

Intersection: 10: Del Paso Road & I-5 Southbound Ramps

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	L	L	R
Maximum Queue (ft)	420	430	238	281	247	327	248
Average Queue (ft)	227	237	99	116	181	228	170
95th Queue (ft)	499	506	215	243	291	364	301
Link Distance (ft)	200	200	748	748		248	
Upstream Blk Time (%)	45	46			6	30	2
Queuing Penalty (veh)	179	183			0	254	0
Storage Bay Dist (ft)					200		200
Storage Blk Time (%)					26	38	2
Queuing Penalty (veh)					159	233	9

Intersection: 11: East Commerce Way & Del Paso Road

Movement	EB	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB
Directions Served	L	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	414	455	495	770	742	735	295	271	323	566	712	799
Average Queue (ft)	356	448	493	733	620	512	206	190	234	323	385	466
95th Queue (ft)	435	479	511	791	858	813	390	300	352	603	659	742
Link Distance (ft)				686	686	686				916	916	916
Upstream Blk Time (%)				81	12	2				0	0	0
Queuing Penalty (veh)				637	92	15				0	0	0
Storage Bay Dist (ft)	375	375	375				205	235	235			
Storage Blk Time (%)	3	66	89	83		39	1	10	21	13		54
Queuing Penalty (veh)	12	277	371	627		129	4	39	83	43		223

Intersection: 11: East Commerce Way & Del Paso Road

Movement	WB	NB	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	R	L	L	T	T	T	R	L	L	T	T	T
Maximum Queue (ft)	230	288	329	507	398	225	290	330	375	1264	953	104
Average Queue (ft)	218	191	243	232	180	95	132	306	349	696	201	38
95th Queue (ft)	279	326	354	429	328	193	236	396	447	1436	691	84
Link Distance (ft)				1093	1093	1093	1093			2199	2199	2199
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	140	245	245					285	285			
Storage Blk Time (%)	9	3	23	4				45	72	0		
Queuing Penalty (veh)	34	7	48	11				36	57	1		

Intersection: 11: East Commerce Way & Del Paso Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	228
Average Queue (ft)	49
95th Queue (ft)	158
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	300
Storage Blk Time (%)	0
Queuing Penalty (veh)	0

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	R	L	L	T	T	T	R	L
Maximum Queue (ft)	28	79	124	133	143	115	147	185	158	112	64	217
Average Queue (ft)	2	20	58	52	68	39	68	75	74	29	12	98
95th Queue (ft)	12	55	112	107	121	91	125	144	135	81	38	175
Link Distance (ft)			1420	1420	1420			590	590	590		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200	200				200	200				200	200
Storage Blk Time (%)								0				0
Queuing Penalty (veh)								0				0

Intersection: 12: Metro Air Parkway & West Elkhorn boulevard

Movement	NB	NB	NB	NB	NB	SB	SB	SB	SB	SB	SB
Directions Served	L	T	T	T	R	L	L	T	T	T	R
Maximum Queue (ft)	225	225	156	148	129	35	199	352	283	199	50
Average Queue (ft)	120	55	63	56	54	5	31	190	158	67	9
95th Queue (ft)	198	135	128	122	101	23	104	302	245	153	32
Link Distance (ft)		1243	1243	1243				709	709	709	709
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				200	200	200				
Storage Blk Time (%)	1						0	5			
Queuing Penalty (veh)	2						0	2			

Intersection: 13: SR 99 Northbound Ramps & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	380	374	396	202	161	246	1211	1226	367	327
Average Queue (ft)	294	273	284	51	32	93	293	574	260	227
95th Queue (ft)	407	379	402	133	99	216	996	1461	330	293
Link Distance (ft)	244	244	244	212	212	212	1189	1189		
Upstream Blk Time (%)	28	21	25	0	0	1	1	3		
Queuing Penalty (veh)	99	74	88	1	0	3	0	0		
Storage Bay Dist (ft)									420	420
Storage Blk Time (%)									0	
Queuing Penalty (veh)									0	

Intersection: 14: West Elkhorn Boulevard & SR 99 Southbound Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R	R
Maximum Queue (ft)	166	142	180	267	139	125	97	82	199	140
Average Queue (ft)	69	70	90	110	54	47	40	29	112	33
95th Queue (ft)	127	130	155	197	107	98	78	65	176	90
Link Distance (ft)	295	295	295	186	186	186	1196	1196		
Upstream Blk Time (%)				1	0					
Queuing Penalty (veh)				3	0					
Storage Bay Dist (ft)									400	400
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB
Directions Served	L	L	T	T	T	R	L	L	T	T	TR	L
Maximum Queue (ft)	262	275	1011	870	589	350	210	288	367	418	445	526
Average Queue (ft)	248	267	589	427	372	177	88	136	204	217	264	192
95th Queue (ft)	294	303	1035	766	555	424	180	235	320	350	405	360
Link Distance (ft)			1336	1336	1336				1379	1379	1379	1022
Upstream Blk Time (%)			0	0								
Queuing Penalty (veh)			4	0								
Storage Bay Dist (ft)	250	250				250	200	200				
Storage Blk Time (%)	16	39	6		26		0	2	8			
Queuing Penalty (veh)											15	

This intersection has been removed from cumulative analysis due to being heavily influenced by Grand Park which is currently revising development plans

Intersection: 15: East Commerce Way & West Elkhorn Boulevard

Movement	NB	NB	SB	SB	SB	SB	SB
Directions Served	T	R	L	T	T	R	R
Maximum Queue (ft)	857	225	52	167	124	137	124
Average Queue (ft)	322	189	11	79	15	55	44
95th Queue (ft)	635	273	38	136	68	110	93
Link Distance (ft)	1022			353	353		
Upstream Blk Time (%)	0						
Queuing Penalty (veh)	0						
Storage Bay Dist (ft)		200	200			200	200
Storage Blk Time (%)	14	5		0			
Queuing Penalty (veh)	59	24		0			

Intersection: 16: East Commerce Way & North Park Drive

Movement	WB	WB	NB	NB	NB	B52	B52	SB	SB	SB
Directions Served	L	R	T	T	R	T	T	L	T	T
Maximum Queue (ft)	174	88	249	254	119	11	44	183	180	183
Average Queue (ft)	87	31	114	129	66	1	2	91	56	70
95th Queue (ft)	149	64	195	207	111	7	19	160	125	134
Link Distance (ft)		1114	1807	1807	1807	2199	2199		2777	2777
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)	275							190		
Storage Blk Time (%)								1	0	
Queuing Penalty (veh)								2	0	

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	
Directions Served	L	T	R	L	T	R	L	T	T	R	L	T	
Maximum Queue (ft)	35	93	47	91	122	59	101	52	55	50	119	82	
Average Queue (ft)	7	42	13	36	48	21	45	22	17	23	49	31	
95th Queue (ft)	28	78	34	70	94	44	80	51	45	45	94	66	
Link Distance (ft)		983			1124		1124		1367		1367		4516
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)	150		150		175		100		130		200		
Storage Blk Time (%)	0												
Queuing Penalty (veh)	0												

Intersection: 17: El Centro Rd & Natomas Central Drive/Arena Boulevard

Movement	SB
Directions Served	R
Maximum Queue (ft)	16
Average Queue (ft)	2
95th Queue (ft)	11
Link Distance (ft)	4516
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Powerline Road & Bayou Road South

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	81	16
Average Queue (ft)	37	1
95th Queue (ft)	61	10
Link Distance (ft)	943	711
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 20: Powerline Road & West Elkhorn Boulevard

Movement	EB	EB	WB	WB	B2002	NB	NB	NB	SB	SB
Directions Served	L	TR	L	T	T	L	T	R	L	TR
Maximum Queue (ft)	155	235	143	203	8	198	95	46	53	115
Average Queue (ft)	44	123	49	84	0	87	8	5	12	33
95th Queue (ft)	105	212	105	161	6	153	50	24	40	84
Link Distance (ft)	682	682	1484	1484	1420		2349			1260
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)						200		200	200	
Storage Blk Time (%)					0		1			0
Queuing Penalty (veh)					0		0			0

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	EB	EB	EB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	R	L	R	L	T	T	TR	L	T	T
Maximum Queue (ft)	162	161	122	162	33	116	174	216	261	109	868	923
Average Queue (ft)	60	9	63	83	8	53	86	103	146	14	385	514
95th Queue (ft)	124	79	111	141	29	104	155	197	241	81	957	1034
Link Distance (ft)		578					641	641	641		1168	1168
Upstream Blk Time (%)											1	3
Queuing Penalty (veh)											7	14
Storage Bay Dist (ft)	200		100	200	100	200				200		
Storage Blk Time (%)	0	0	5				0				26	
Queuing Penalty (veh)	1	0	5				0				3	

Intersection: 21: Metro Air Parkway & Pacific Gateway Drive

Movement	SB
Directions Served	TR
Maximum Queue (ft)	945
Average Queue (ft)	570
95th Queue (ft)	1052
Link Distance (ft)	1168
Upstream Blk Time (%)	3
Queuing Penalty (veh)	13
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 22: Metro Air Parkway & Meister Way

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB	
Directions Served	T	R	L	T	R	L	T	T	TR	L	T	T	
Maximum Queue (ft)	51	63	205	162	68	82	289	344	483	168	254	277	
Average Queue (ft)	10	17	124	20	23	12	126	133	242	70	76	115	
95th Queue (ft)	37	49	206	165	56	49	240	281	429	136	190	231	
Link Distance (ft)	604		480			1168			1168	1168	1243		1243
Upstream Blk Time (%)	0												
Queuing Penalty (veh)	0												
Storage Bay Dist (ft)	100		200		100		200		200				
Storage Blk Time (%)	4			1				0		1			
Queuing Penalty (veh)	2			0				0		1			

Intersection: 22: Metro Air Parkway & Meister Way

Movement	SB
Directions Served	TR
Maximum Queue (ft)	268
Average Queue (ft)	129
95th Queue (ft)	243
Link Distance (ft)	1243
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	NB	
Directions Served	T	T	T	R	L	T	T	T	R	L	T	R	
Maximum Queue (ft)	116	118	110	38	64	129	86	112	43	41	31	103	
Average Queue (ft)	49	43	52	8	19	42	28	37	8	7	1	41	
95th Queue (ft)	91	85	93	27	51	93	71	87	26	28	22	79	
Link Distance (ft)	786	786	786			1776	1776	1776				469	
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)				250	200				250	100			100
Storage Blk Time (%)													
Queuing Penalty (veh)													

Intersection: 23: Badiee Drive & West Elkhorn Boulevard

Movement	SB	SB
Directions Served	L	T
Maximum Queue (ft)	123	192
Average Queue (ft)	74	14
95th Queue (ft)	123	106
Link Distance (ft)		581
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)	8	0
Queuing Penalty (veh)	0	0

Intersection: 24: Ameri Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	L	T	L	TR	L	TR
Maximum Queue (ft)	28	2	5	43	3	33	57	63	62
Average Queue (ft)	5	0	0	9	0	11	24	22	23
95th Queue (ft)	20	2	3	32	2	31	44	50	48
Link Distance (ft)		590			786	388	388	271	271
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)	100		250	200					
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	SB
Directions Served	L	T	T	T	L	T	T	T	R	T	R	L
Maximum Queue (ft)	214	175	178	207	59	173	178	170	60	98	92	124
Average Queue (ft)	96	64	83	102	9	79	73	73	18	31	27	119
95th Queue (ft)	174	126	147	177	35	140	137	135	45	74	66	137
Link Distance (ft)		1776	1776	1776		1046	1046	1046		1161		
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200				200				250		100	100
Storage Blk Time (%)	1			0		0		0		0	0	31
Queuing Penalty (veh)	2			0		0		0		0	0	49

Intersection: 25: Lone Tree Road & West Elkhorn Boulevard

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	284	74
Average Queue (ft)	195	15
95th Queue (ft)	337	47
Link Distance (ft)	232	
Upstream Blk Time (%)	13	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		100
Storage Blk Time (%)	1	0
Queuing Penalty (veh)	4	0

Intersection: 26: Lakestone Drive & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB
Directions Served	U	T	T	T	R	L	T	T	T	L	R
Maximum Queue (ft)	33	186	223	230	35	66	104	102	139	92	194
Average Queue (ft)	5	78	99	121	3	16	33	39	59	36	89
95th Queue (ft)	23	149	187	207	18	50	82	84	114	76	164
Link Distance (ft)		1046	1046	1046			707	707	707	842	842
Upstream Blk Time (%)											
Queuing Penalty (veh)											
Storage Bay Dist (ft)	200				150	250					
Storage Blk Time (%)		0		4							
Queuing Penalty (veh)		0		0							

Intersection: 27: Wave Street & West Elkhorn Boulevard

Movement	EB	NB
Directions Served	R	R
Maximum Queue (ft)	6	73
Average Queue (ft)	0	32
95th Queue (ft)	4	61
Link Distance (ft)	595	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	175	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB	
Directions Served	U	T	T	T	R	L	L	T	T	T	L	R	
Maximum Queue (ft)	84	314	400	481	155	396	447	220	106	133	26	158	
Average Queue (ft)	9	178	216	288	12	214	253	34	39	41	1	73	
95th Queue (ft)	64	292	349	438	98	365	407	159	85	99	18	129	
Link Distance (ft)	972		972	972				968	968	968	828		
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)	200					250	430	430				150	
Storage Blk Time (%)			5	16		0	1						1
Queuing Penalty (veh)			0	1		1	2						0

Intersection: 28: Waterside Avenue & West Elkhorn Boulevard

Movement	NB
Directions Served	R
Maximum Queue (ft)	152
Average Queue (ft)	65
95th Queue (ft)	125
Link Distance (ft)	828
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 29: Bayou Way & Callison Drive

Movement	EB	NB	NB	SB
Directions Served	LR	L	T	TR
Maximum Queue (ft)	58	31	43	54
Average Queue (ft)	27	17	21	31
95th Queue (ft)	51	39	45	48
Link Distance (ft)	748		1347	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)		150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 30: El Centro Road & Hawkview Drive

Movement	EB	NB	NB	SB	SB
Directions Served	R	L	T	T	TR
Maximum Queue (ft)	651	142	12	375	271
Average Queue (ft)	414	55	1	93	38
95th Queue (ft)	875	113	7	313	183
Link Distance (ft)	680		456	678	678
Upstream Blk Time (%)	44				
Queuing Penalty (veh)	0				
Storage Bay Dist (ft)		200			
Storage Blk Time (%)	64				
Queuing Penalty (veh)	0				

Intersection: 31: Powerline Road & Airport South Industrial Drive

Movement	WB	WB	SB
Directions Served	L	R	L
Maximum Queue (ft)	56	37	27
Average Queue (ft)	21	9	2
95th Queue (ft)	49	29	12
Link Distance (ft)		152	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		200
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 32: Metro Air Parkway & Airport South Industrial Drive

Movement	EB	EB	WB	WB	B117	NB	SB	SB
Directions Served	L	TR	L	TR	T	LTR	L	TR
Maximum Queue (ft)	113	68	62	118	60	127	126	122
Average Queue (ft)	54	28	12	69	5	51	54	53
95th Queue (ft)	93	57	44	108	35	90	98	92
Link Distance (ft)		150		66	104	325	281	281
Upstream Blk Time (%)			0	9	0			
Queuing Penalty (veh)			0	27	1			
Storage Bay Dist (ft)	100		100					
Storage Blk Time (%)	1	0	0	9				
Queuing Penalty (veh)	0	0	0	1				

Intersection: 33: Metro Air Parkway & Parcel 6C Driveway/Parcel 7C Driveway

Movement	EB	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB	SB
Directions Served	L	TR	L	TR	L	T	TR	L	L	T	T	R
Maximum Queue (ft)	243	87	34	131	40	224	301	104	132	131	179	172
Average Queue (ft)	166	6	5	66	5	84	185	37	72	51	46	77
95th Queue (ft)	247	41	23	114	24	177	295	82	112	100	111	139
Link Distance (ft)	208			303		281	281			447	447	
Upstream Blk Time (%)	5					0	2					
Queuing Penalty (veh)	0					0	6					
Storage Bay Dist (ft)		150	150		150			150	150			150
Storage Blk Time (%)	15	0		0		0		0	0	0	0	1
Queuing Penalty (veh)	1	0		0		0		0	0	0	0	1

Intersection: 34: Parcel 8 E Driveway & Bayou Way

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 36: Airport South Industrial Drive & Parcel 7C Driveway

Movement	B117	WB	SB
Directions Served	T	TR	LR
Maximum Queue (ft)	24	23	57
Average Queue (ft)	1	1	11
95th Queue (ft)	11	17	39
Link Distance (ft)	66	124	233
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		0	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 37: Airport South Industrial Drive & Parcel 3 West Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	38	69
Average Queue (ft)	5	34
95th Queue (ft)	24	61
Link Distance (ft)	124	888
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 38: Airport South Industrial Drive & Parcel 6C Driveway

Movement	EB	B114	B114	SB
Directions Served	T		T	LR
Maximum Queue (ft)	10	14	32	50
Average Queue (ft)	0	0	3	10
95th Queue (ft)	7	7	19	36
Link Distance (ft)	62	66	66	297
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	0			
Queuing Penalty (veh)	0			

Intersection: 39: Airport South Industrial Drive & Parcel 1 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	91
Average Queue (ft)	40
95th Queue (ft)	67
Link Distance (ft)	490
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 40: Parcel 2 West Driveway/Parcel 1 West Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	21	18	74	30
Average Queue (ft)	1	1	38	3
95th Queue (ft)	9	8	63	18
Link Distance (ft)			830	743
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	100		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 41: Airport South Industrial Drive & Parcel 3 East Driveway

Movement	EB	SB
Directions Served	L	LR
Maximum Queue (ft)	32	62
Average Queue (ft)	2	21
95th Queue (ft)	14	49
Link Distance (ft)		671
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	150	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 42: Parcel 4 East Driveway/Lot C Driveway & Airport South Industrial Drive

Movement	EB	WB	NB	SB
Directions Served	L	L	LTR	LTR
Maximum Queue (ft)	28	44	63	66
Average Queue (ft)	1	3	20	17
95th Queue (ft)	14	22	48	46
Link Distance (ft)			875	315
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150	150		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 43: Airport South Industrial Drive & Parcel 5 West Driveway

Movement	EB	NB	SB
Directions Served	L	LTR	LTR
Maximum Queue (ft)	22	78	76
Average Queue (ft)	1	36	32
95th Queue (ft)	10	66	61
Link Distance (ft)		440	927
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	150		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 44: Airport South Industrial Drive & Parcel 5 East Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	51
Average Queue (ft)	15
95th Queue (ft)	42
Link Distance (ft)	900
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 69: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	45	185
Average Queue (ft)	3	8
95th Queue (ft)	21	71
Link Distance (ft)	1147	1147
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 71:

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	68	55
Average Queue (ft)	13	19
95th Queue (ft)	46	45
Link Distance (ft)	319	319
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 74:

Movement	EB
Directions Served	R
Maximum Queue (ft)	393
Average Queue (ft)	190
95th Queue (ft)	322
Link Distance (ft)	572
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 86: I-5 Northbound Ramp

Movement	WB	WB
Directions Served	T	T
Maximum Queue (ft)	40	64
Average Queue (ft)	4	24
95th Queue (ft)	21	53
Link Distance (ft)	1015	1015
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 95: Airport South Industrial Drive & Parcel 8 E Driveway

Movement	EB	EB	NB	SB
Directions Served	L	R	LT	TR
Maximum Queue (ft)	102	16	66	66
Average Queue (ft)	53	1	20	34
95th Queue (ft)	87	11	50	57
Link Distance (ft)	123	123	262	
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 101: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 102: Airport Blvd & I-5 Northbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 110:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	82	111
Average Queue (ft)	37	60
95th Queue (ft)	69	92
Link Distance (ft)	465	465
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 201: Airport Blvd & I-5 Southbound Ramp

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 203: I-5 Southbound Ramp

Movement	NB
Directions Served	T
Maximum Queue (ft)	12
Average Queue (ft)	1
95th Queue (ft)	11
Link Distance (ft)	164
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 204: I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 401: I-5 Southbound Ramp

Movement

Directions Served
 Maximum Queue (ft)
 Average Queue (ft)
 95th Queue (ft)
 Link Distance (ft)
 Upstream Blk Time (%)
 Queuing Penalty (veh)
 Storage Bay Dist (ft)
 Storage Blk Time (%)
 Queuing Penalty (veh)

Intersection: 402:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	141	140
Average Queue (ft)	83	93
95th Queue (ft)	122	128
Link Distance (ft)	480	480
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 701: Del Paso Rd/Del Paso Road & Balancing Dwy

Movement	EB	EB	WB	WB	SB	SB
Directions Served	T	T	T	R	L	R
Maximum Queue (ft)	11	23	6	120	200	70
Average Queue (ft)	0	1	0	8	87	9
95th Queue (ft)	6	11	4	54	190	98
Link Distance (ft)	3005	3005	289	289	316	316
Upstream Blk Time (%)					3	2
Queuing Penalty (veh)					0	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1002: Del Paso Road

Movement	EB	EB	EB
Directions Served	T	T	R
Maximum Queue (ft)	846	867	875
Average Queue (ft)	277	289	235
95th Queue (ft)	874	906	882
Link Distance (ft)	883	883	883
Upstream Blk Time (%)	5	13	16
Queuing Penalty (veh)	24	58	74
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1003: Del Paso Road

Movement	EB	EB
Directions Served	T	TR
Maximum Queue (ft)	769	769
Average Queue (ft)	477	480
95th Queue (ft)	1028	1028
Link Distance (ft)	748	748
Upstream Blk Time (%)	29	23
Queuing Penalty (veh)	184	148
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1004: Del Paso Road/Del Paso Rd

Movement	EB	EB	EB	WB
Directions Served	T	T	T	TR
Maximum Queue (ft)	251	276	262	263
Average Queue (ft)	186	195	175	9
95th Queue (ft)	328	349	337	106
Link Distance (ft)	212	212	212	370
Upstream Blk Time (%)	37	17	9	
Queuing Penalty (veh)	290	133	70	
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 1005: Del Paso Rd/Del Paso Road

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	T
Maximum Queue (ft)	582	581	559	326	374	363
Average Queue (ft)	495	418	365	25	87	90
95th Queue (ft)	747	709	665	159	218	225
Link Distance (ft)	370	370	370	686	686	686
Upstream Blk Time (%)	83	43	19			0
Queuing Penalty (veh)	649	336	151			0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 1006: I-5 Southbound Ramps

Movement	SB	B1009
Directions Served	T	T
Maximum Queue (ft)	937	1010
Average Queue (ft)	370	305
95th Queue (ft)	1081	1024
Link Distance (ft)	839	977
Upstream Blk Time (%)	28	19
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1007:

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	87	92
Average Queue (ft)	44	54
95th Queue (ft)	75	78
Link Distance (ft)	152	152
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1011:

Movement	SB
Directions Served	T
Maximum Queue (ft)	292
Average Queue (ft)	95
95th Queue (ft)	204
Link Distance (ft)	1004
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 1301: West Elkhorn Boulevard

Movement	EB	EB
Directions Served	T	T
Maximum Queue (ft)	11	47
Average Queue (ft)	1	2
95th Queue (ft)	11	35
Link Distance (ft)	212	212
Upstream Blk Time (%)		0
Queuing Penalty (veh)		0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 1302: West Elkhorn Boulevard

Movement	EB	EB	EB
Directions Served	T	T	T
Maximum Queue (ft)	65	38	49
Average Queue (ft)	10	6	5
95th Queue (ft)	62	47	37
Link Distance (ft)	275	275	275
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 1401: West Elkhorn Boulevard

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 1402: West Elkhorn Boulevard

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 8848

APPENDIX H:

Signal Warrant Analysis

Elkhorn Blvd at Power Line Rd - Cumulative

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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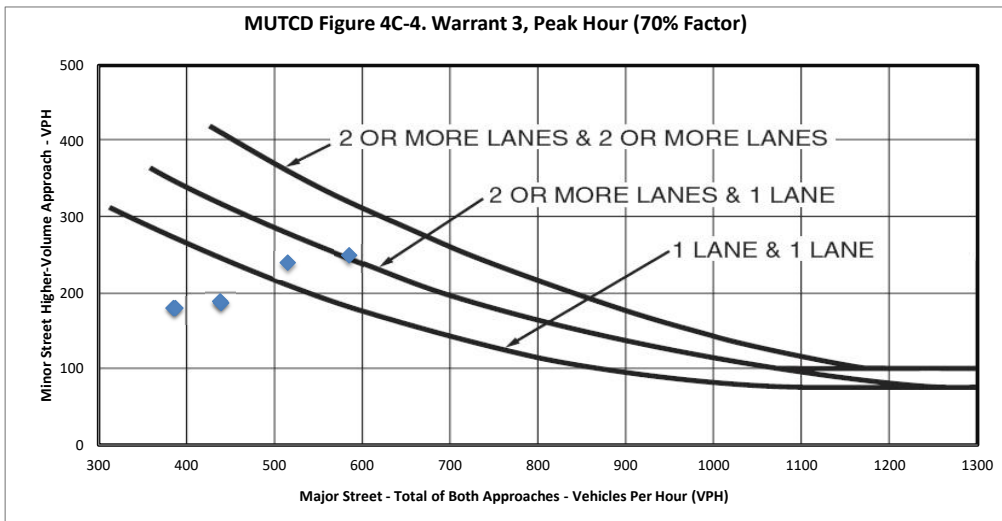
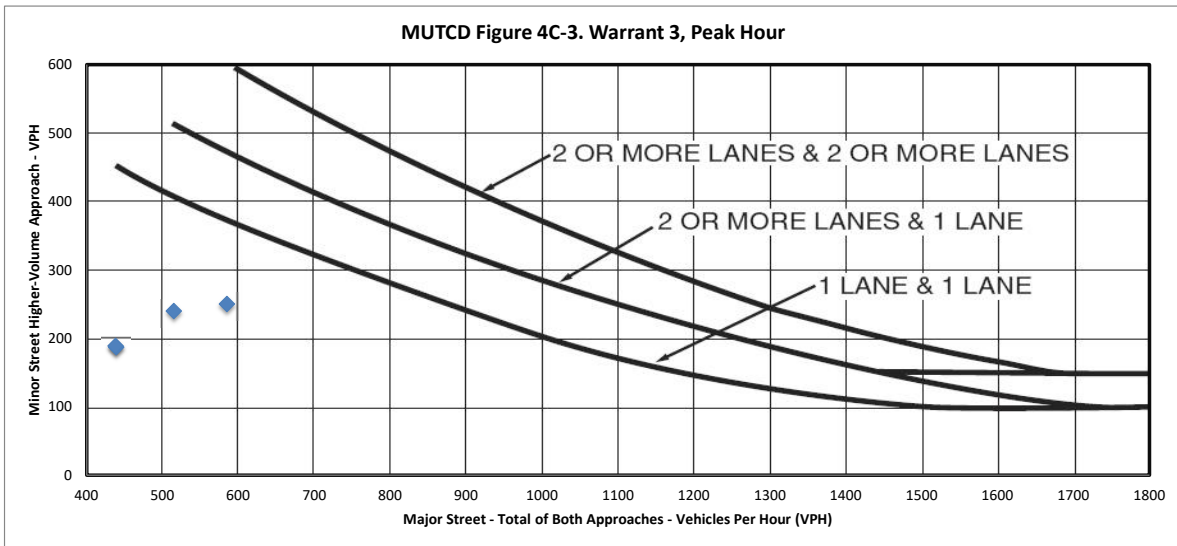
Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3	0
---	---

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	385	180	
7:00 AM	515	240	
7:15 AM	387	180	
7:30 AM	259	120	
7:45 AM	130	60	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	147	61	
4:30 PM	293	124	
4:45 PM	439	187	
5:00 PM	585	250	
5:15 PM	438	189	
5:30 PM	292	126	
5:45 PM	146	63	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	



Metro Air Parkway at South Airport Industrial Blvd

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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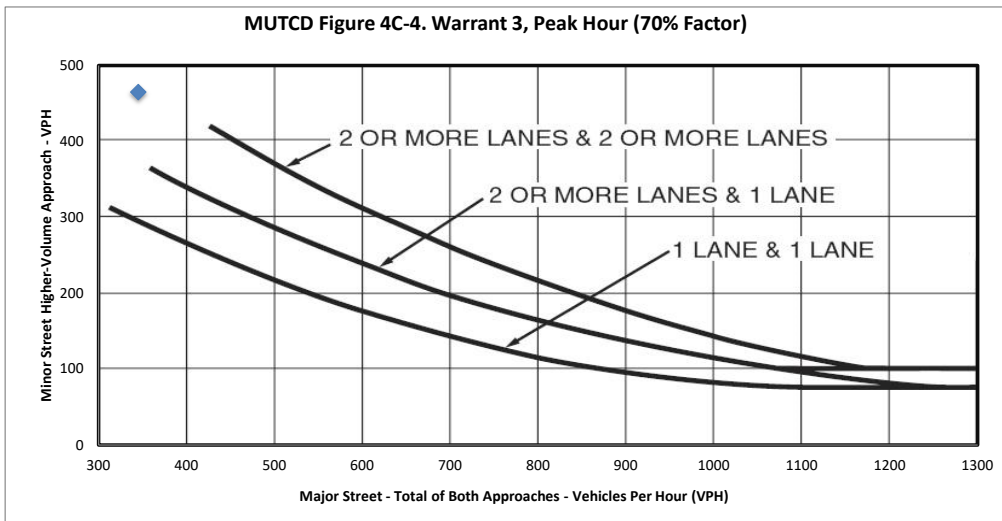
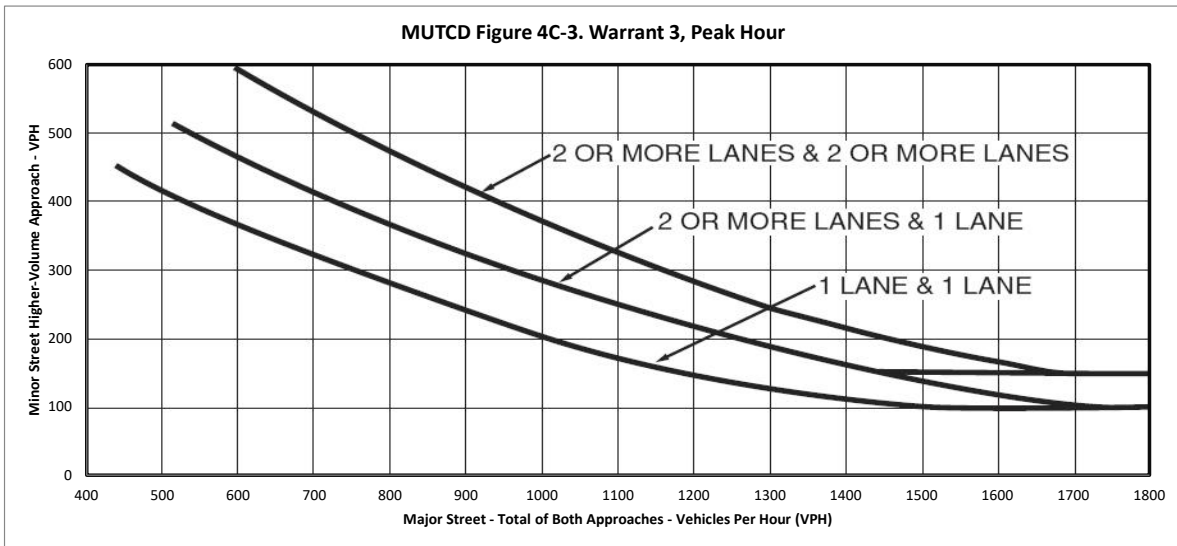
Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3	1
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Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	228	540	
7:00 AM	304	720	Met
7:15 AM	228	540	
7:30 AM	152	360	
7:45 AM	76	180	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	86	116	
4:30 PM	172	232	
4:45 PM	258	348	
5:00 PM	345	465	
5:15 PM	259	349	
5:30 PM	173	233	
5:45 PM	87	117	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	
7:00 PM	0	0	



Metro Air Parkway at West Elkhorn Blvd - Baseline

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	2 or More Lanes

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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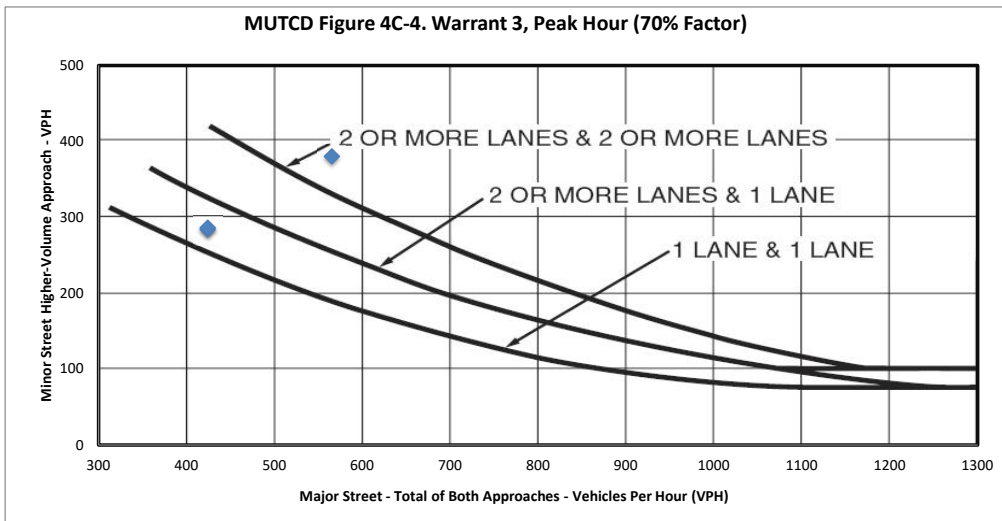
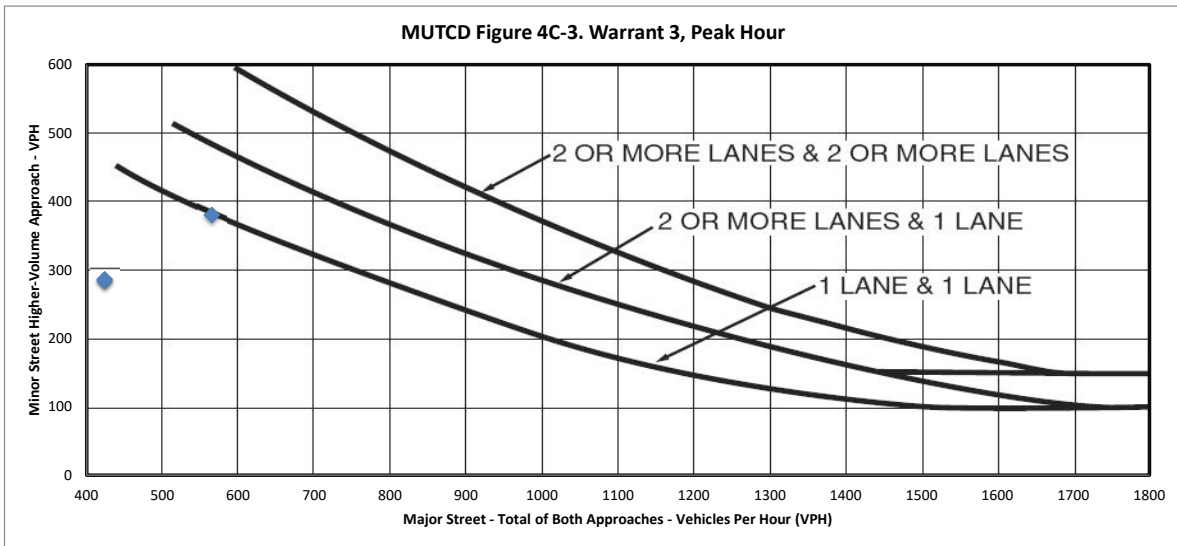
Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3	0
---	---

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	424	284	
7:00 AM	565	380	
7:15 AM	424	286	
7:30 AM	283	191	
7:45 AM	141	96	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	76	143	
4:30 PM	153	286	
4:45 PM	229	430	
5:00 PM	305	575	
5:15 PM	229	432	
5:30 PM	152	289	
5:45 PM	76	145	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	
7:00 PM	0	0	



MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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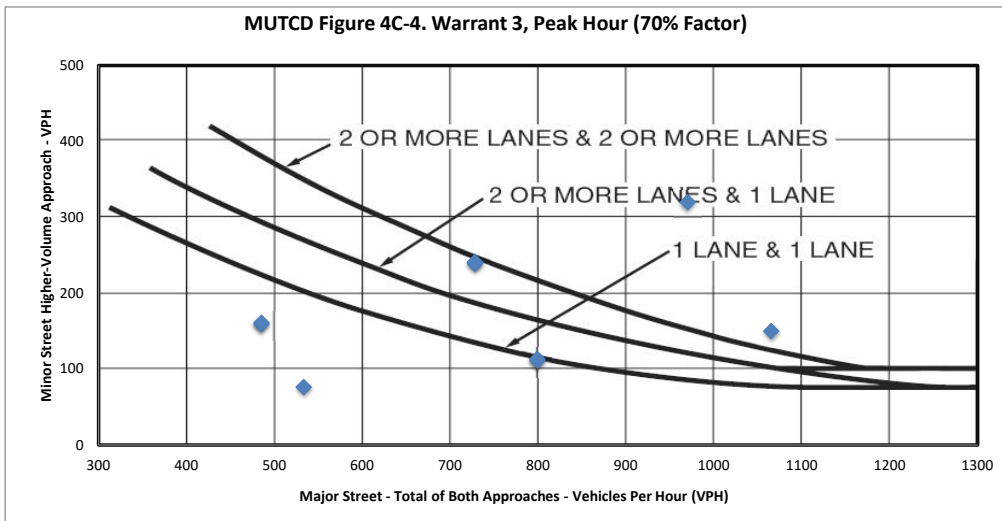
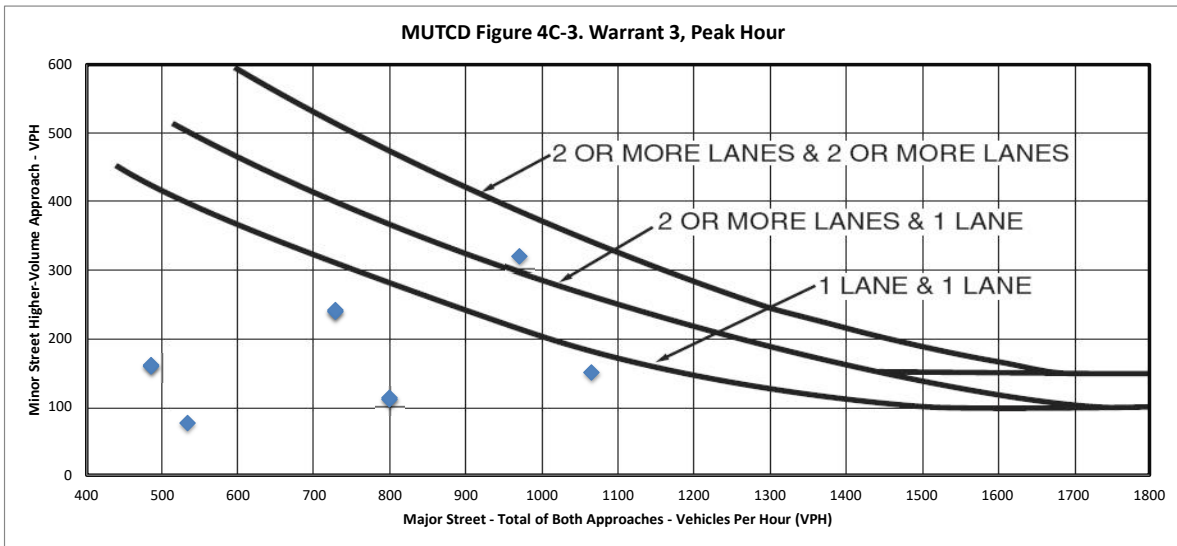
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---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3
1

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	799	111	
7:00 AM	1065	150	
7:15 AM	799	113	
7:30 AM	533	76	
7:45 AM	266	39	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	242	79	
4:30 PM	485	159	
4:45 PM	728	239	
5:00 PM	970	320	Met
5:15 PM	728	241	
5:30 PM	485	161	
5:45 PM	242	81	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	



Metro Air Parkway at West Elkhorn Blvd - Baseline w/ Project

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	2 or More Lanes

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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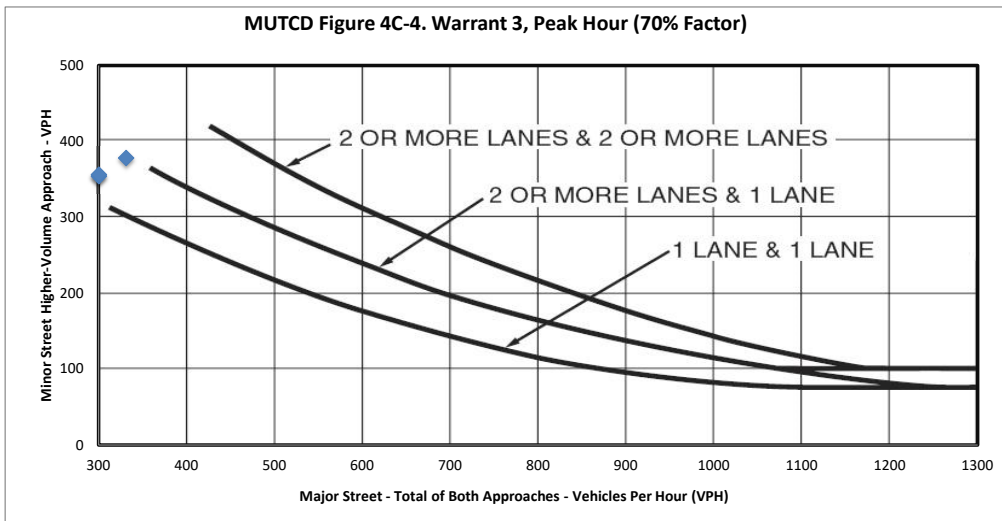
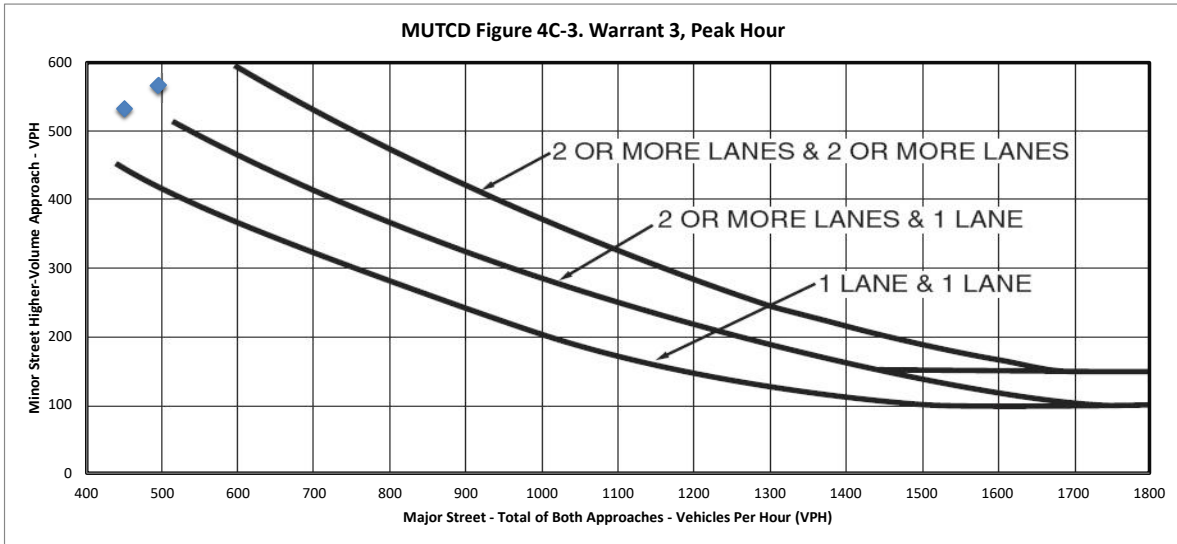
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---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3
2

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	494	566	
7:00 AM	660	755	Met
7:15 AM	495	567	
7:30 AM	331	378	
7:45 AM	166	189	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	150	177	
4:30 PM	300	354	
4:45 PM	450	532	
5:00 PM	600	710	Met
5:15 PM	450	533	
5:30 PM	300	356	
5:45 PM	150	178	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	
7:00 PM	0	0	



Metro Air Parkway at Highway Commercial Driveway

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	1 Lane

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
---	----

Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
---	-----

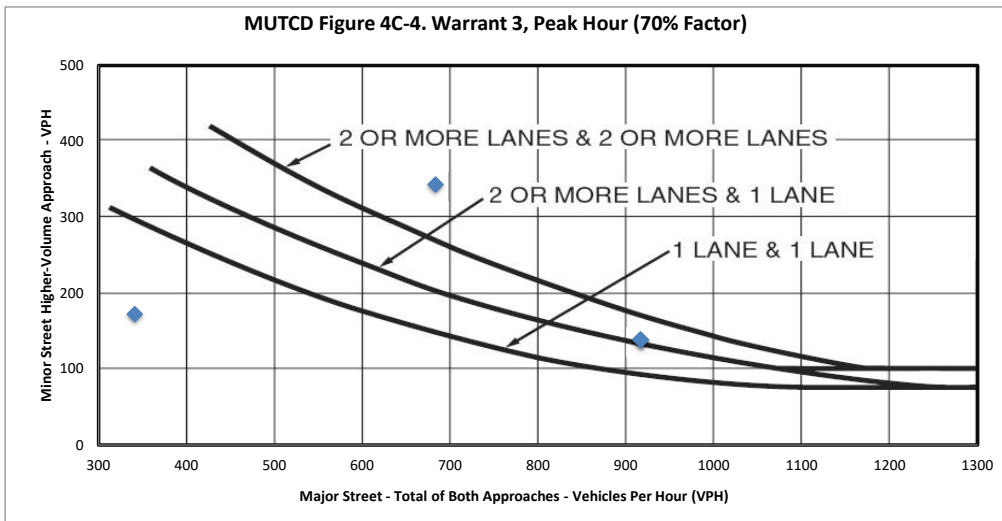
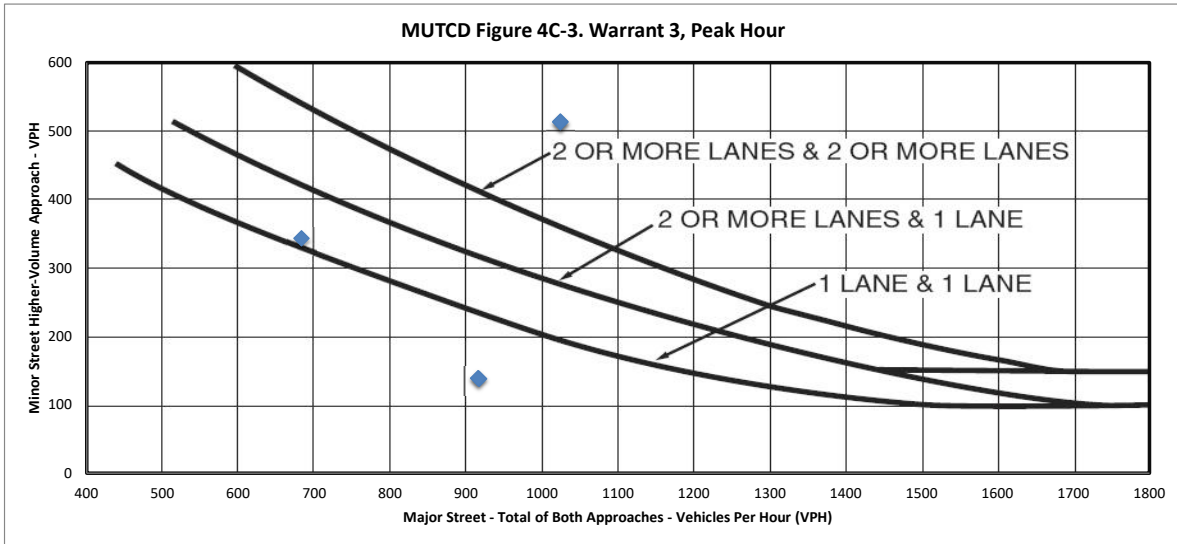
Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes

**If applicable, attach all supporting calculations and documentation.*

Total Number of Unique Hours Met On Figure 4C-3	3
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Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	1024	513	Met
7:00 AM	1365	685	Met
7:15 AM	1024	514	Met
7:30 AM	683	343	
7:45 AM	341	172	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	917	138	
4:30 PM	1833	277	Met
4:45 PM	2749	416	Met
5:00 PM	3665	555	Met
5:15 PM	2748	417	Met
5:30 PM	1832	278	Met
5:45 PM	916	139	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	
7:00 PM	0	0	



Metro Air Parkway at I-5 NB Ramps - Cumulative

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	2 or More Lanes

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
---	----

Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
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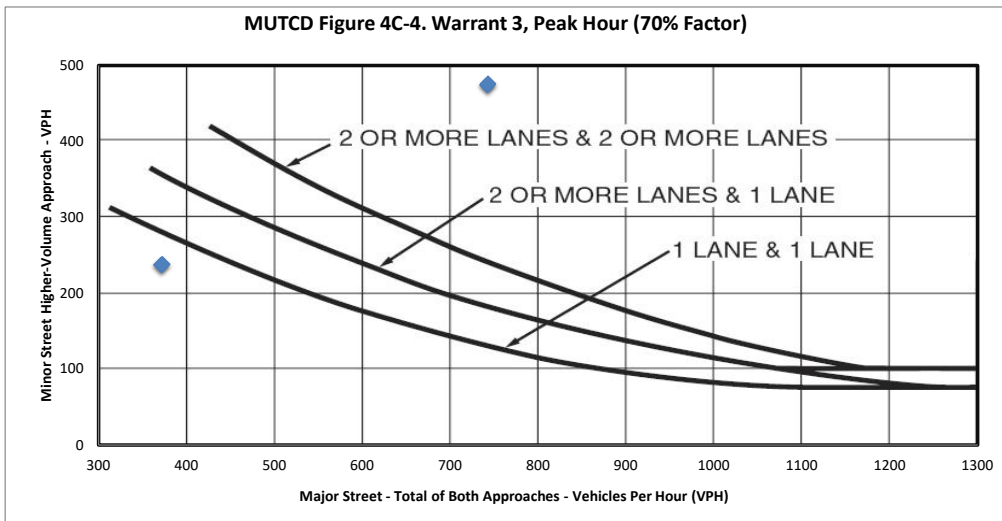
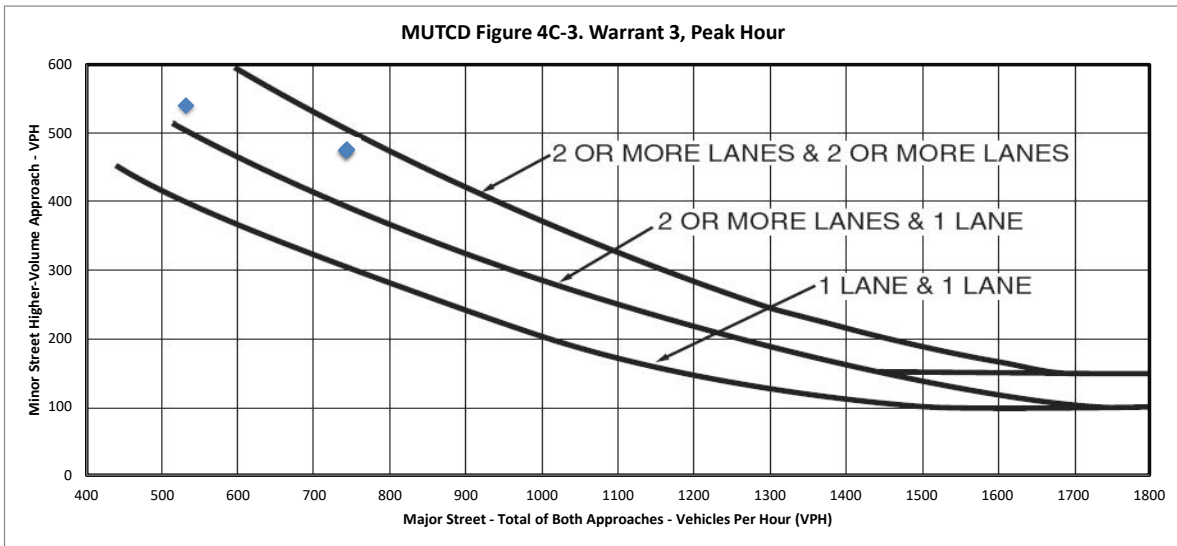
Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes

**If applicable, attach all supporting calculations and documentation.*

Total Number of Unique Hours Met On Figure 4C-3	2
---	---

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	794	810	Met
7:00 AM	1060	1080	Met
7:15 AM	796	810	Met
7:30 AM	531	540	
7:45 AM	266	270	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	371	237	
4:30 PM	742	474	
4:45 PM	1113	712	Met
5:00 PM	1485	950	Met
5:15 PM	1114	713	Met
5:30 PM	743	476	
5:45 PM	372	238	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	



Metro Air Parkway at I-5 SB Ramps - Cumulative

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	2 or More Lanes

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
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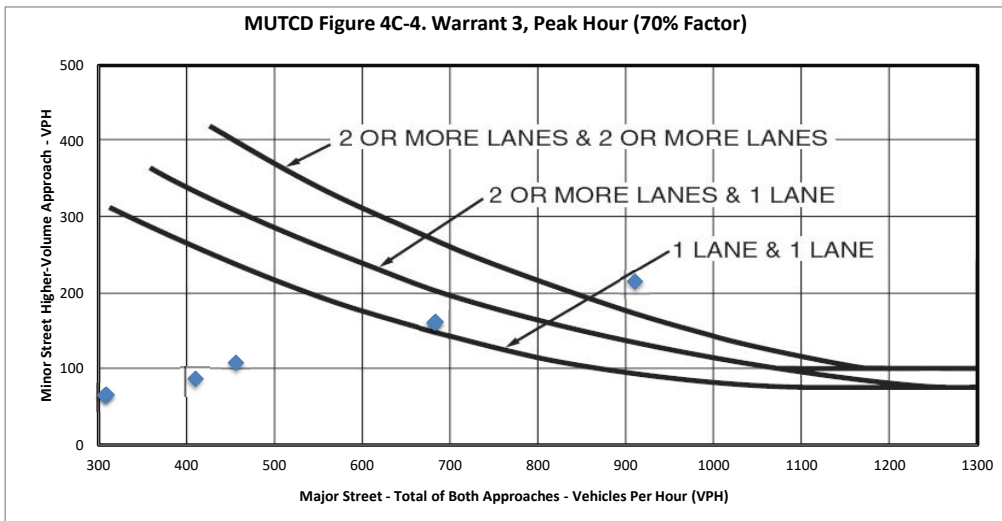
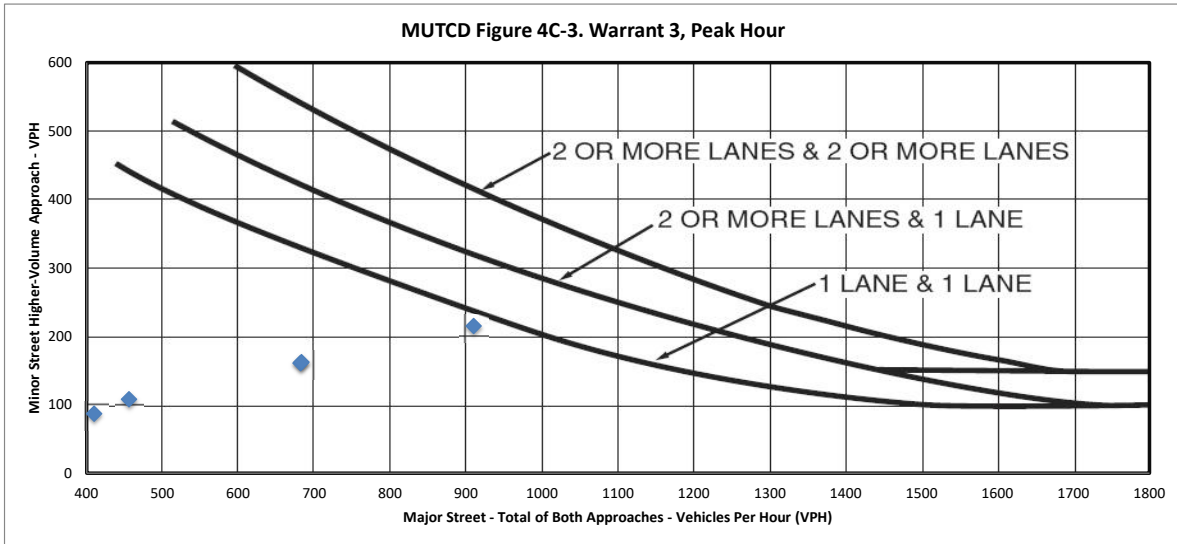
Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
---	-----

Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes
<i>*If applicable, attach all supporting calculations and documentation.</i>	

Total Number of Unique Hours Met On Figure 4C-3
0

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	682	161	
7:00 AM	910	215	
7:15 AM	683	162	
7:30 AM	456	108	
7:45 AM	228	54	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	101	21	
4:30 PM	204	43	
4:45 PM	307	65	
5:00 PM	410	87	
5:15 PM	309	66	
5:30 PM	206	44	
5:45 PM	103	22	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	



Metro Air Parkway at I-5 SB Ramps - Cumulative w/ Project

MUTCD WARRANT 3, PEAK HOUR

Number of Lanes for Moving Traffic on Each Approach	
Major Street:	2 or More Lanes
Minor Street:	2 or More Lanes

Built-up Isolated Community With Less Than 10,000 Population or Above 40 MPH on Major Street?	No
---	----

Is this signal warrant being applied for an unusual case, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time?	Yes
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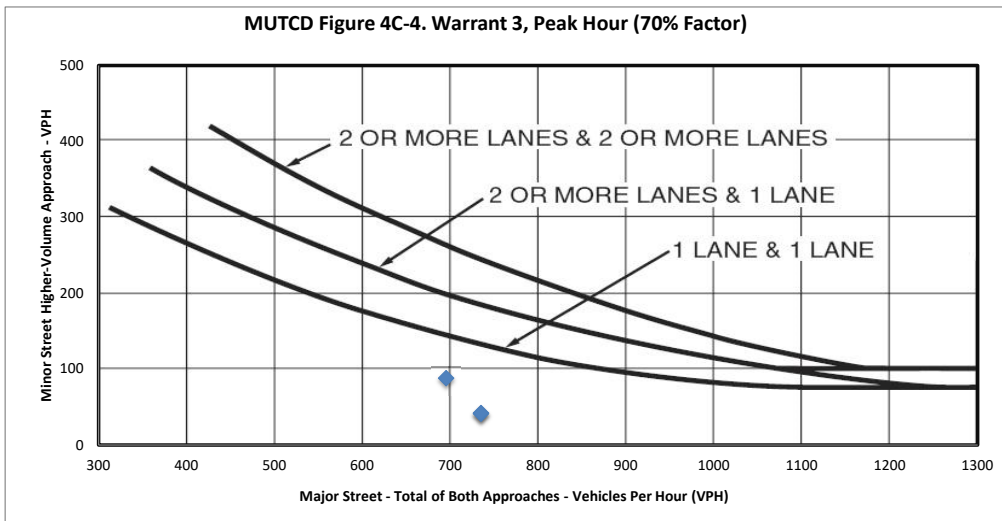
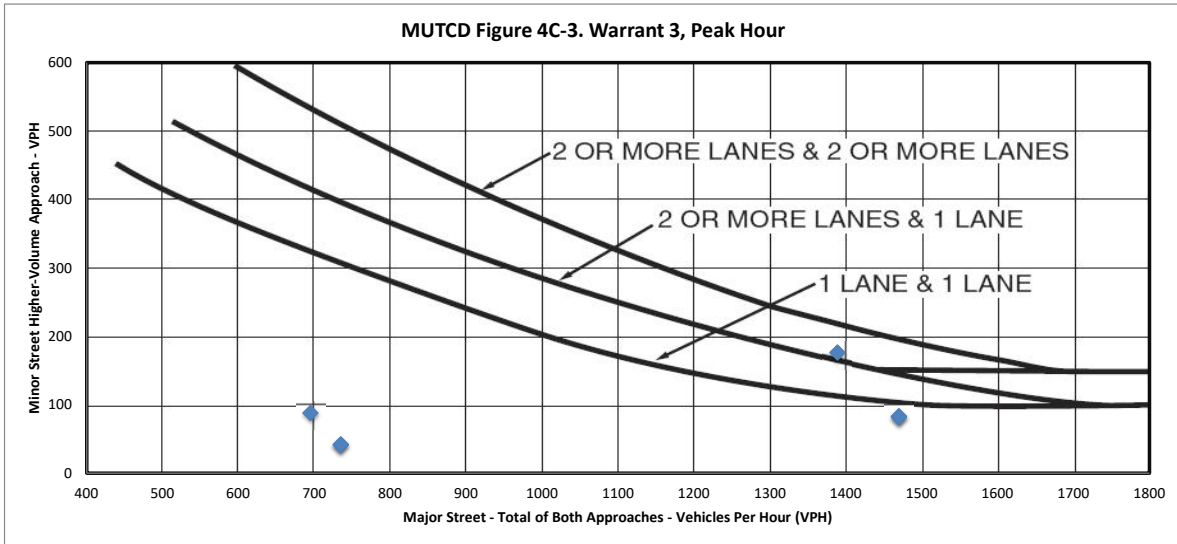
Indicate whether all three of the following conditions for the same 1 hour (any four consecutive 15-minute periods) of an average day are present*

Does the total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equal or exceed 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach?	Yes
Does the volume on the same minor-street approach (one direction only) equal or exceed 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes?	Yes
Does the total entering volume serviced during the hour equal or exceed 650 vehicles per hour for intersection with three approaches or 800 vehicles per hour for intersections with four or more approaches?	Yes

**If applicable, attach all supporting calculations and documentation.*

Total Number of Unique Hours Met On Figure 4C-3	2
---	----------

Hourly Vehicular Volume			
Hour Interval	Major Street Combined	Highest Minor Street Approach	Hour Met?
Beginning At	Vehicles Per Hour (VPH)	Vehicles Per Hour (VPH)	
6:45 AM	2080	262	Met
7:00 AM	2775	350	Met
7:15 AM	2082	263	Met
7:30 AM	1389	176	
7:45 AM	695	88	
8:00 AM	0	0	
8:15 AM	0	0	
8:30 AM	0	0	
8:45 AM	0	0	
9:00 AM	0	0	
9:15 AM	0	0	
1:30 PM	0	0	
1:45 PM	0	0	
2:00 PM	0	0	
2:15 PM	0	0	
2:30 PM	0	0	
2:45 PM	0	0	
3:00 PM	0	0	
3:15 PM	0	0	
3:30 PM	0	0	
3:45 PM	0	0	
4:00 PM	0	0	
4:15 PM	735	41	
4:30 PM	1470	82	
4:45 PM	2205	123	
5:00 PM	2940	165	Met
5:15 PM	2205	124	
5:30 PM	1470	83	
5:45 PM	735	42	
6:00 PM	0	0	
6:15 PM	0	0	
6:30 PM	0	0	
6:45 PM	0	0	



APPENDIX O



TRIP GENERATION AND DISTRIBUTION MEMORANDUM

DATE: March 10, 2023

TO: Matthew Ilagan | City of Sacramento
Pelle Clarke | City of Sacramento

FROM: Sean Carney | DKS Associates
Dave Tokarski | DKS Associates
Vic Maslanka | DKS Associates

SUBJECT: Airport South Industrial – Phase B

Project #19179-024

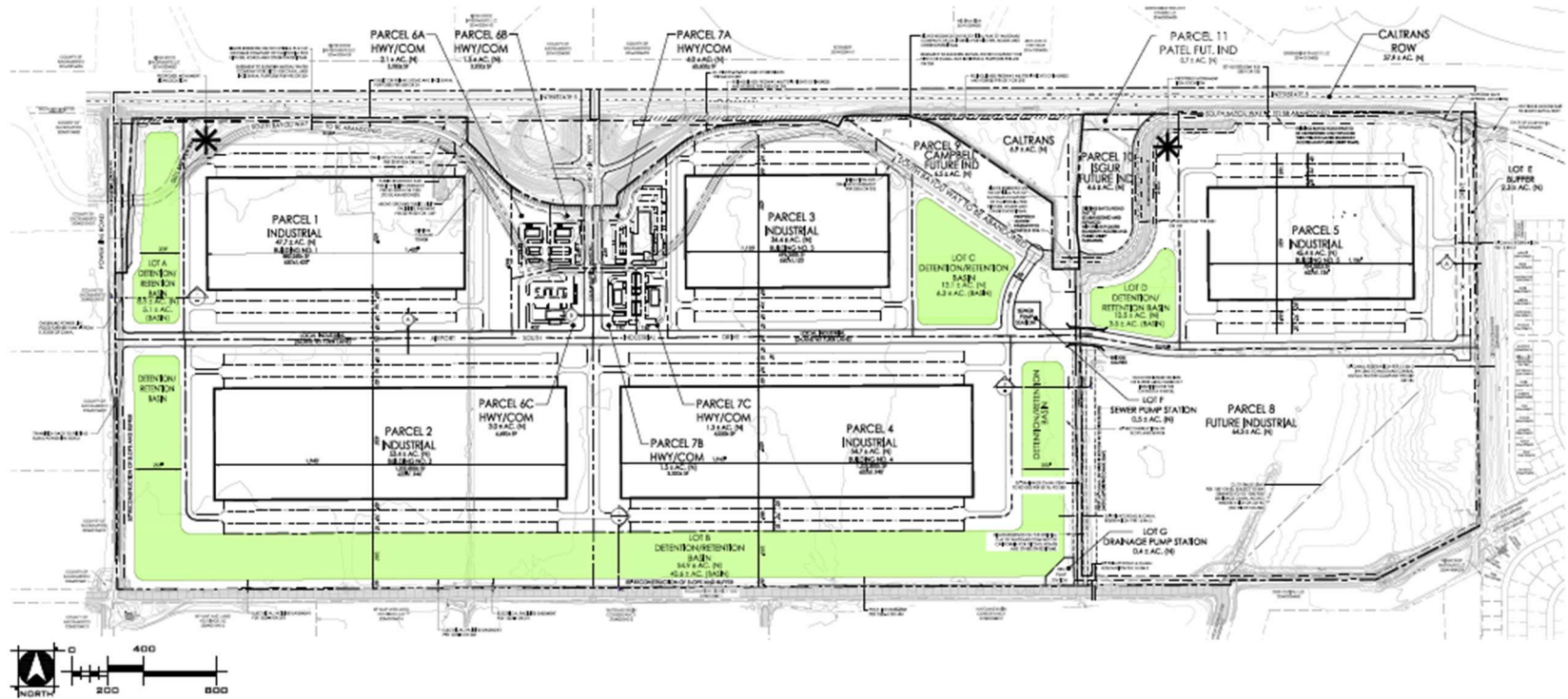
This memorandum summarizes the results of the trip generation and distribution analysis of the proposed Airport South Industrial project, based upon the latest Baseline Plus Project model runs. The project consists of approximately 474.4 net acres of land to be annexed into the City of Sacramento and developed as M-1 (Industrial) and HC (Highway Commercial) zoning land uses.

PROJECT DESCRIPTION

As illustrated in **Figure 1**, the project is located on the south side of I-5 at the Metro Air Parkway interchange. **Figure 2** illustrates the proposed site plan. **Table 1** summarizes the land use utilized in the calculation of trip generation. This land use information was taken directly from the land use summary included in the project description information provided by the applicant to the City. The project includes over 6.6 million square feet of warehousing / distribution / industrial space, four restaurants, a fueling station / carwash, and a hotel.



FIGURE 1: SITE LOCATION



Source: Wood Rodgers, June 20, 2022.

FIGURE 2: PRELIMINARY SITE PLAN

TABLE 1: LAND USE SUMMARY

PARCEL	USE	PARCEL SIZE (ACRES)	BUILDING SIZE (SQARE FEET)
1 - 5	Warehouse Distribution	235.6	5,204,500
6A	Restaurant	2.1	3,900
6B	Restaurant	1.5	3,900
6C	Fueling Station / Carwash	3.0	8,100
7A	Hotel	4.0	73,400
7B	Restaurant	1.5	3,900
7C	Restaurant	1.3	5,000
8-11 AND CALTRANS	Future Industrial	83.0	1,404,800

Source: Wood Rodgers, June 20, 2022.

TRIP GENERATION ESTIMATION

INDUSTRIAL USES

For parcels 1 - 5, 8 - 11, and Caltrans, it was assumed that the parcels would be developed in a manner comparable to Metro Airpark (located on the north side of I-5). As the travel model utilizes “employees” as the land use variable, the building size was converted to number of employees. To calculate this conversion, the applicant provided information from comparable facilities throughout the United States, including the adjacent Metro Airpark. This information was reviewed by City staff, and an employment density of 0.572 employees per 1,000 square feet was assigned (one employee per 1,748 square feet). **Table 2** summarizes the estimated number of employees for each parcel. A total of 3,781 employees were calculated.

Table 3 presents mode choice of the industrial uses for light vehicles. 96 percent of person trips are by automobile, 3 percent by walk mode, and 1 percent by bicycle. These estimates do not include heavy vehicle trips.

Table 4 summarizes the daily, AM peak hour, and PM peak hour vehicular trip generation of the industrial uses, as estimated by the travel model (Baseline Plus Project scenario). The industrial

uses are estimated to generate 12,794 daily trips, 1,191 AM peak hour trips, and 1,004 PM peak hour trips. This includes light vehicle and heavy vehicle trips.

TABLE 2: INDUSTRIAL EMPLOYMENT SUMMARY

PARCEL	PARCEL SIZE (ACRES)	BUILDING SIZE (SQARE FEET)	EMPLOYEES
1	47.7	979,400	560
2	53.4	1,335,200	764
3	34.4	772,900	442
4	54.7	1,335,200	764
5	45.4	781,800	447
8	64.3	1,088,200	622
9	6.5	110,000	63
10	4.6	77,900	45
11	0.7	11,900	7
CALTRANS	6.9	116,800	67
INDUSTRIAL SUMMARY	318.6	6,609,300	3,781

TABLE 3: INDUSTRIAL DAILY MODE CHOICE

MODE	PERCENTAGE OF PERSON TRIPS
WALK	3%
BICYCLE	1%
AUTOMOBILE – 1 OCCUPANT (SOV)	71%
AUTOMOBILE – 2 OCCUPANTS (HOV2)	14%
AUTOMOBILE – 3 OR MORE OCCUPANTS (HOV3+)	11%

TABLE 4: ESTIMATED INDUSTRIAL TOTAL TRIP GENERATION

TOTAL VEHICLE TRIPS (LIGHT VEHICLES AND HEAVY VEHICLES)						
DAILY	AM PEAK HOUR			PM PEAK HOUR		
	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
12,794	886	305	1,191	281	723	1,004

Table 5 compares the total vehicle trip generation rates of the travel model (trips per 1,000 square feet) to ITE Trip Generation¹, rates for similar land uses. The travel model estimates are similar to the ITE warehouse rates (model is higher for daily and AM peak hour, lower for PM peak hour), but lower than light industrial and manufacturing uses. The model projections are consistent with the warehousing and fulfillment center uses that predominate the Metro Airpark. No further adjustments to the travel model for industrial total trip generation purposes are recommended.

Table 6 summarizes the heavy vehicle trip generation estimates of the travel model. Compared to the anticipated heavy vehicle trip generation for these industrial uses, these estimates are low.

Table 7 compares the heavy vehicle trip percentages to ITE Trip Generation percentages for similar land uses, as well as data from Metro Airpark.

It is recommended that the heavy vehicle trip generation rates should be increased, and applied with a post-processor methodology to adjust the model estimates to reflect anticipated heavy vehicle travel volumes. Based upon the ITE Trip Generation data and the data from Metro Airpark, the recommended heavy vehicle trip generation estimates are presented in **Table 8**.

¹ 11th Edition, Version 6.0.1, May 2022

TABLE 5: COMPARISON TO ITE AND METRO AIRPARK INDUSTRIAL TRIP GENERATION RATES

ITE CODE	LAND USE	VEHICLE TRIPS PER 1,000 SQUARE FEET		
		DAILY	AM PEAK HOUR	PM PEAK HOUR
	Travel Model Estimates	1.94	0.18	0.15
110	General Light Industrial	4.87	0.74	0.65
130	Industrial Park	3.37	0.34	0.34
140	Manufacturing	4.75	0.68	0.74
150	Warehousing	1.71	0.17	0.18
154	High-Cube Transload and Short-Term Storage Warehouse	1.40	0.08	0.10
155	High-Cube Fulfillment Center Warehouse - Non-Sort	1.81	0.15	0.16
-	Amazon SMF5 (Metro Airpark) – Peak Season ^a	7.43	0.93	0.82
-	Amazon SMF5 (Metro Airpark) – Off-Peak Season ^a	4.46	0.56	0.49
-	Walmart SMF1 (Metro Airpark) ^b	0.31	0.12	0.12
-	SC Johnson (Metro Air Park) ^b	0.58	0.07	0.06
-	8035 Metro Air Parkway ^c	-	0.61	0.61
-	Amazon Fulfillment Center, Patterson, CA ^d	1.80	0.08	0.36
-	JC Penney Distribution Center, Lathrop, CA ^d	0.70	0.03	0.04

- a. *Metro Air Park – Lot 49 Site Access and Circulation Analysis Update, Fehr & Peers, March 22, 2021.*
- b. *Project Bronco – Metro Air Parkway / Skyking Road Existing Plus Project and Existing Plus Project Plus Building 1 Signal Warrant Analysis, Fehr & Peers, September 14, 2020.*
- c. *8035 Metro Air Parkway – Site Access and Circulation Analysis Update, Fehr & Peers, August 3, 2021.*
- d. *Metro Air Parkway / I-5 Interchange PS&E Support – Part 2, Fehr & Peers, August 4, 2017.*

TABLE 6: ESTIMATED INDUSTRIAL HEAVY VEHICLE TRIP GENERATION

VEHICLE TRIPS							
VEHICLE TYPE	DAILY	AM PEAK HOUR			PM PEAK HOUR		
		ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
HEAVY	536	26	26	52	9	9	18
TOTAL	12,794	886	305	1,191	281	723	1,004
PERCENT HEAVY TRIPS	4%	3%	9%	4%	3%	1%	2%

TABLE 7: COMPARISON TO ITE AND METRO AIRPARK INDUSTRIAL HEAVY VEHICLE TRIP PERCENTAGES

ITE CODE	LAND USE	PERCENT HEAVY TRIPS		
		DAILY	AM PEAK HOUR	PM PEAK HOUR
	Travel Model Estimates	4%	4%	2%
110	General Light Industrial	5%	1%	2%
130	Industrial Park	17%	12%	12%
140	Manufacturing	9%	4%	4%
150	Warehousing	35%	12%	17%
154	High-Cube Transload and Short-Term Storage Warehouse	16%	25%	10%
155	High-Cube Fulfillment Center Warehouse - Non-Sort	13%	13%	6%
-	Amazon SMF5 (Metro Airpark) – Peak Season ^a	23%	7%	13%
-	Amazon SMF5 (Metro Airpark) – Off-Peak Season ^a	23%	7%	13%
-	Walmart SMF1 (Metro Airpark) ^b	22%	2%	2%
-	SC Johnson (Metro Air Park) ^b	77%	100%	100%
-	8035 Metro Air Parkway ^c	-	4%	3%

a. Metro Air Park – Lot 49 Site Access and Circulation Analysis Update, Fehr & Peers, March 22, 2021.

b. Project Bronco – Metro Air Parkway / Skyking Road Existing Plus Project and Existing Plus Project Plus Building 1 Signal Warrant Analysis, Fehr & Peers, September 14, 2020.

c. 8035 Metro Air Parkway – Site Access and Circulation Analysis Update, Fehr & Peers, August 3, 2021.

TABLE 8: RECOMMENDED INDUSTRIAL HEAVY VEHICLE TRIP GENERATION

VEHICLE TRIPS							
VEHICLE TYPE	DAILY	AM PEAK HOUR			PM PEAK HOUR		
		ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
HEAVY	2,559	89	31	119	28	72	100
TOTAL	12,794	886	305	1,191	281	723	1,004
PERCENT HEAVY TRIPS	20%	10%	10%	10%	10%	10%	10%

HIGHWAY COMMERCIAL USES

Similar to the industrial uses, the building sizes of the highway commercial uses were converted to employees for input to the travel model. Consistent with other retail and service uses in the travel model, 500 square feet per employee was assumed. This yields 33 employees for the land use west of Metro Air Parkway, and 164 employees for the land use east of Metro Air Parkway.

Table 9 presents mode choice of the highway commercial uses. 97 percent of person trips are by automobile, 3 percent by walk mode, and less than 1 percent by bicycle. The number of heavy vehicle trips associated with the highway commercial uses are small, unless a truck-oriented business is developed within this area.

TABLE 9: HIGHWAY COMMERCIAL DAILY MODE CHOICE

MODE	PERCENTAGE OF PERSON TRIPS
WALK	3%
BICYCLE	<1%
AUTOMOBILE – 1 OCCUPANT (SOV)	57%
AUTOMOBILE – 2 OCCUPANTS (HOV2)	23%
AUTOMOBILE – 3 OR MORE OCCUPANTS (HOV3+)	17%

Table 10 summarizes the highway commercial vehicle trip generation estimates of the travel model.

TABLE 10: ESTIMATED HIGHWAY COMMERCIAL TRIP GENERATION

PARCEL	EMPLOYEES	VEHICLE TRIPS						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
6A, 6B, 6C (WEST)	33	298	15	5	20	9	15	23
7A, 7B, 7C (EAST)	164	1,005	54	18	73	24	48	72
HIGHWAY COMMERCIAL SUMMARY	197	1,303	69	23	93	33	63	95

Compared to the anticipated trip generation for these highway commercial uses adjacent to an interstate freeway, these estimates are extremely low. The travel model does not include land use categories / uses specific to intense highway commercial uses, such as a convenience store / gas station. The model trip generation is also unconstrained for employment uses, which reduces the number of trips attracted to a land use not adjacent to a developed area.

It is recommended that ITE trip generation rates be used for the highway commercial uses, and applied with a post-processor methodology to adjust the model estimates to reflect anticipated travel volumes. This is especially critical for the access management review along Metro Air Parkway near the I-5 interchange, and along Airport South Industrial Drive.

The recommended trip generation of the highway commercial uses is based upon representative uses from the Institute of Transportation Engineers (ITE) Trip Generation Manual 11th Edition, Version 6.0.1, May 2022. **Table 11** summarizes the land use on each parcel and the assumed ITE land use code and statistics.

Table 12 and **Table 13** summarize the vehicle trip generation estimates for the highway commercial parcels. Parcel 6C was calculated based upon both fueling positions and convenience store size, with the results averaged. Pass-by percentages are based upon ITE data. Internal trips are limited to a maximum of 10 percent, with no trips assumed between restaurants. The appendix includes the trip generation calculations for highway commercial uses.

TABLE 11: HIGHWAY COMMERCIAL PARCEL TRIP GENERATION CHARACTERISTICS

PARCEL	PROPOSED USE	ACRES	SQUARE FEET	ITE CODE	ASSUMED USE	ASSUMPTIONS
6A	Restaurant	2.1	3,900	934	Fast-Food Restaurant	-
6B	Restaurant	1.5	3,900	934	Restaurant With Drive-Through	-
6C	Fueling Station / Carwash	3.0	8,100	945	Convenience Store / Gas Station	8,100 square-foot convenience store, 20 fueling positions
7A	Hotel	4.0	73,400	310	Hotel	122 Rooms, based on typical 600 square feet per room
7B	Restaurant	1.5	3,900	934	Fast-Food Restaurant	-
7C	Restaurant	1.3	5,000	934	Restaurant With Drive-Through	-

TABLE 12: HIGHWAY COMMERCIAL VEHICLE TRIP GENERATION ESTIMATES – WEST PARCELS

PARCEL	PROPOSED USE	VEHICLE TRIPS (INCLUDES TRUCK TRIPS)						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
TOTAL TRIPS								
6A	Restaurant	1,823	89	85	174	67	62	129
6B	Restaurant	1,823	89	85	174	67	62	129
6C	Fueling Station / Carwash	8,655	343	343	686	295	294	589
	Total	12,301	521	513	1,034	429	418	847
INTERNAL TRIPS								
	Total	-729	-35	-35	-70	-26	-26	-52
PASS-BY TRIPS								
6A	Restaurant	-861	-40	-38	-78	-33	-31	-64
6B	Restaurant	-861	-40	-38	-78	-33	-31	-64
6C	Fueling Station / Carwash	-6,259	-247	-248	-495	-211	-211	-422
	Total	-7,982	-327	-324	-652	-278	-273	-550
NEW TRIPS								
6A	Restaurant	779	40	38	78	27	25	52
6B	Restaurant	779	40	38	78	27	25	52
6C	Fueling Station / Carwash	2,031	78	78	156	70	70	141
	Total	3,590	158	155	313	125	121	245

TABLE 13: HIGHWAY COMMERCIAL VEHICLE TRIP GENERATION ESTIMATES – EAST PARCELS

PARCEL	PROPOSED USE	VEHICLE TRIPS (INCLUDES TRUCK TRIPS)						
		DAILY	AM PEAK HOUR			PM PEAK HOUR		
			ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
TOTAL TRIPS								
7B	Restaurant	1,823	89	85	174	67	62	129
7C	Restaurant	2,337	114	109	223	86	79	165
7A	Hotel	975	31	25	56	37	35	72
	Total	5,135	234	219	453	190	176	366
INTERNAL TRIPS								
	Total	-195	-6	-5	-11	-7	-7	-14
PASS-BY TRIPS								
7B	Restaurant	-935	-44	-42	-86	-36	-33	-69
7C	Restaurant	-1,198	-56	-54	-110	-46	-42	-89
7A	Hotel	0	0	0	0	0	0	0
	Total	-2,133	-100	-96	-196	-82	-76	-158
NEW TRIPS								
7B	Restaurant	846	44	42	86	29	27	57
7C	Restaurant	1,084	56	54	110	38	35	72
7A	Hotel	878	28	23	50	33	32	65
	Total	2,807	128	118	246	100	93	194

TRIP DISTRIBUTION ESTIMATES

INDUSTRIAL USES

Figure 3 illustrates the project trip distribution from the Baseline Plus Project scenario for the industrial uses. Separate distribution percentages are displayed for light vehicles (automobiles) and heavy vehicles.

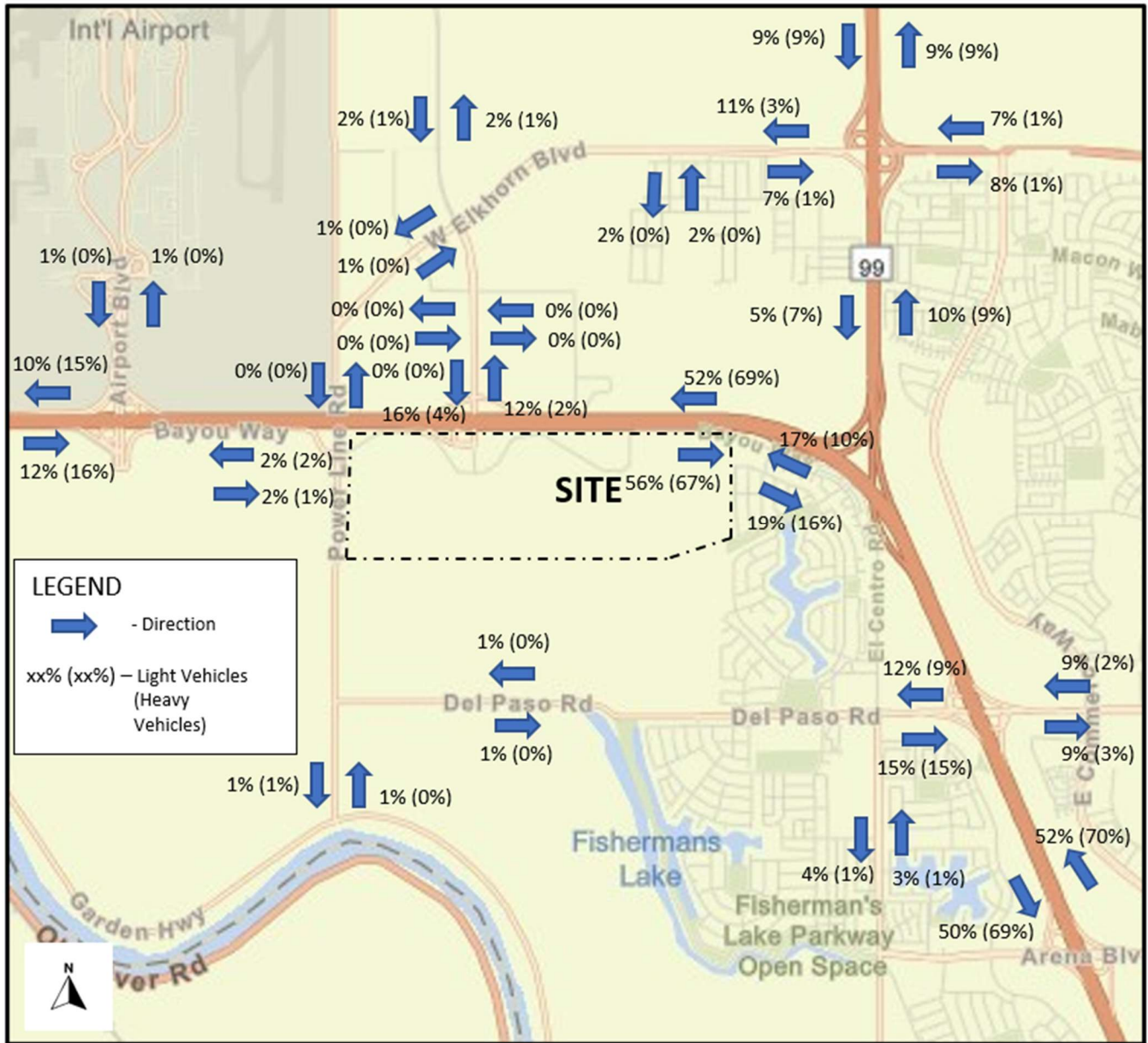
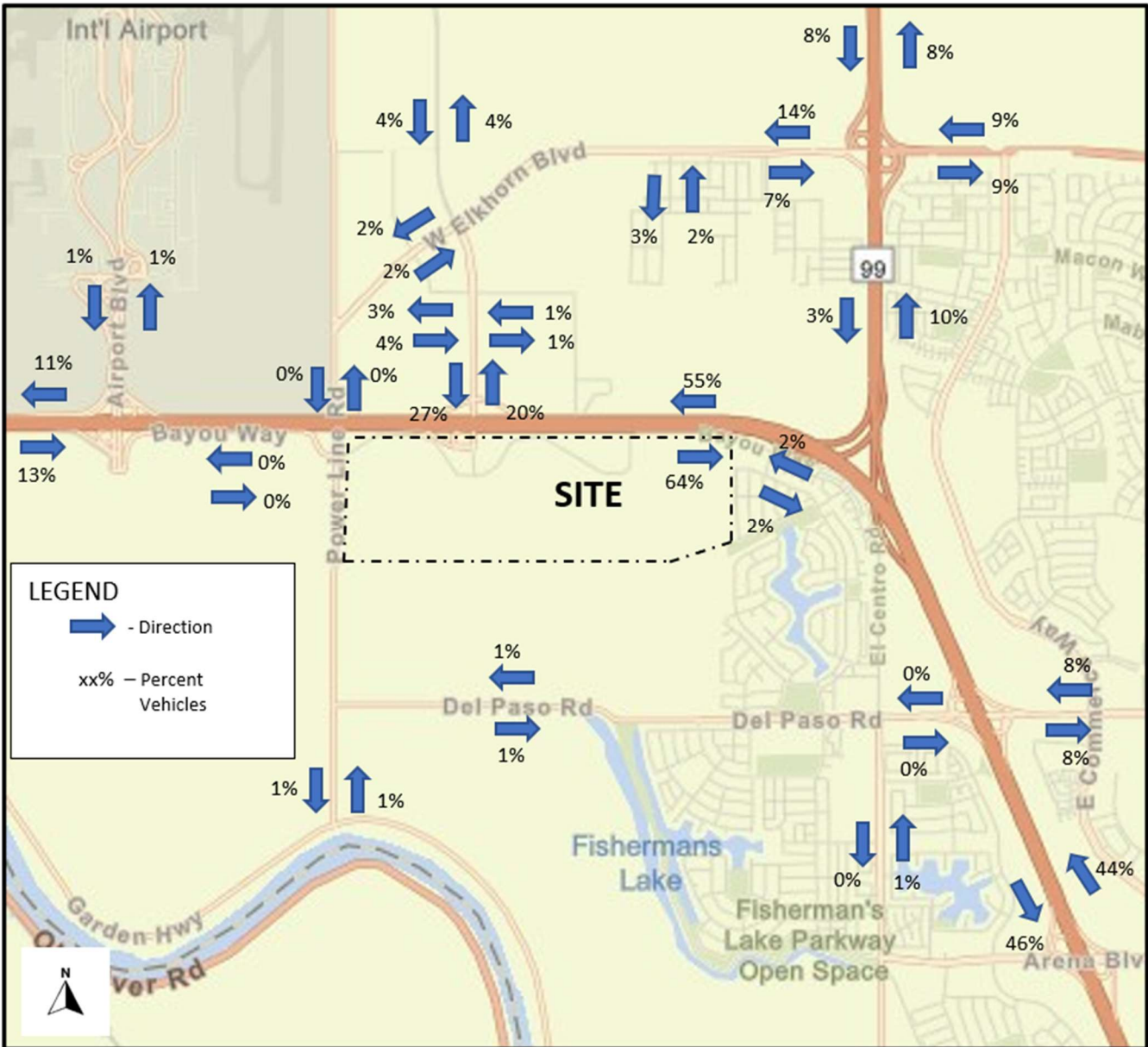


FIGURE 3: BASELINE PROJECT TRIP DISTRIBUTION FOR INDUSTRIAL USES

HIGHWAY COMMERCIAL USES

Figure 4 illustrates the project trip distribution from the Baseline Plus Project scenario for the highway commercial uses. As discussed previously, these uses will not generate a large volume of heavy vehicles. The distribution reflects new trips. Pass-by trips associated with the highway commercial uses will primarily be associated with traffic patterns on I-5.

FIGURE 4: BASELINE PROJECT TRIP DISTRIBUTION FOR HIGHWAY COMMERCIAL USES



APPENDIX P



DRAFT VMT ANALYSIS

DATE: March 10, 2023

TO: Matthew Ilagan, Pelle Clarke | City of Sacramento

FROM: Sean Carney, David Tokarski, Vic Maslanka | DKS Associates

SUBJECT: Airport South Industrial VMT Analysis

Project #19179-024

INTRODUCTION

In accordance with Senate Bill 743 (SB 743) and the resulting changes to the California Environmental Quality Act (CEQA) Guidelines published by the Natural Resources Agency, local agencies may no longer use measures of vehicle delay such as Level of Service (LOS) to quantify transportation impacts on the environment. VMT is a systemic metric and is a useful indicator of overall land use and transportation efficiency, where the most efficient system is one that minimizes VMT by encouraging shorter vehicle trip lengths, more walking and biking, or increased carpooling and transit. Vehicle miles traveled (VMT) has been codified in the CEQA Guidelines as the most appropriate measure for measuring transportation impacts under CEQA. This change went into effect statewide on July 1, 2020. The City of Sacramento's draft transportation impact guidelines are consistent with OPR's recommendation of using VMT as a metric.

INDUSTRIAL USES

Based on current practice of the City of Sacramento, transportation impacts are considered significant if the proposed project would result in a VMT per capita or office VMT per employee above 85% of the regional average, consistent with technical guidance published by the Governor's Office of Planning and Research (OPR). The OPR guidance does not specify a particular significance threshold for industrial employment and recommends that local jurisdictions determine this threshold based on local conditions. Some jurisdictions in the Sacramento region (including Sacramento County (adopted) and the City of Rancho Cordova (adopted)) have determined that the significance threshold for industrial employment is 100% of regional average. The reasoning for this less restrictive threshold for industrial uses compared to other employment types is rooted in improving overall VMT efficiency of all future development in aggregate. Industrial uses generally have more zoning restrictions and are generally less densely developed than other employment types making them less desirable within urban areas. By keeping these uses outside of urban centers, the land that they would occupy can instead be used for higher density land development that can see a greater benefit from being located in VMT efficient areas. This inherently means industrial uses will have higher VMT per employee than other employment types because they are

located further from a good mix of housing and services which are necessary to achieve lower VMT levels. The draft City of Sacramento Transportation Impact Analysis Guidelines do not specify a significance threshold for industrial land uses. For consistency with other nearby jurisdictions and after discussion with City staff, this analysis applies the significance threshold of 100% of regional average for industrial uses.

HIGHWAY COMMERCIAL USES

Because new retail development often redistributes trips rather than creating new travel demand, the OPR guidance recommends that lead agencies analyze the net change in VMT to indicate the transportation impact of retail projects.¹

The potential for VMT impacts, according to this approach, hinges on whether the project can be considered local-serving or regional. By adding retail opportunities within existing neighborhoods, local-serving retail projects can shorten trips and reduce overall VMT. In contrast, regional destination retail projects would draw customers from larger trade areas, potentially substituting for shorter trips and increasing VMT. The OPR guidance suggests that any retail projects including stores larger than 50,000 square feet might be considered regional serving retail.

This approach has been applied to the highway commercial uses. As discussed below, the individual uses were reviewed to determine whether they can be considered regional “destination” uses which would attract vehicle trips from a large area and potentially increase VMT, or whether the uses duplicate other existing projects in the nearby area and could reduce VMT.

VMT SCREENING

VMT SCREENING CRITERIA

Pursuant to SB 743 and technical guidance published by OPR, there are several screening procedures to potentially streamline project analysis (i.e., provide a presumptive non-impact finding and obviate the need for a VMT analysis). The various screening options are listed below with a brief determination of whether a given screen is triggered by the proposed project.

- **Project Size:** Projects that generate fewer than 110 trips per day can be presumed to have a less than significant transportation impact. Based on the trip generation data presented in the Transportation Analysis (in a separate document prepared by DKS), the proposed project does not meet this screening criteria.
- **Proximity to High Quality Transit:** Residential or office projects within one-half mile of an existing major transit station or stop along an existing high-quality transit corridor can be

¹ Governor’s Office of Planning and Research, Technical Advisory on Evaluating Transportation Impacts in CEQA. (New York: Free Press, December 2018), 15–16.

presumed to have a less than significant transportation impact. The proposed project is not currently served by transit. The project does not meet this screening criteria.

- **Affordable Housing Development:** The proposed project does not include the provision of housing. The proposed project does not meet this screening criteria.
- **Locally Serving Retail:** Typically less than 50,000 square feet. The Highway Commercial component of the project could potentially meet this screening criteria, as discussed below.
- **Infrastructure:** Projects that would not likely lead to a substantial or measurable increase in vehicle travel are presumed to be VMT neutral and generally presumed to have a less than significant transportation impact (i.e., induced VMT). These include: Roadway Maintenance and Rehab Projects; Signal Timing / Synchronization / Adaptive Signal Control /Signal Preemption Improvements; Intersection Control Type and Turn Lane Channelization Improvements; Widening for Local or Local Collector Streets; and Transit / Bicycle / Pedestrian Infrastructure Improvements. The proposed project does not contain any substantial infrastructure improvements that meet this screening criteria.
- **Project Location:** Projects that fall within an identified location (in this case SACOG’s hexagon methodology is used for screening purposes) that demonstrates VMT per Capita for residential projects below 85% of the regional average for that metric, or VMT per Employee for employment-based projects below 100% of the regional average for that metric. As discussed below, the industrial portion of the project does not meet this screening criteria.

INDUSTRIAL VMT ANALYSIS

VMT EMPLOYMENT SCREENING MAP

Figure 1 illustrates SACOG’s VMT Employment Screening Map for the project vicinity. As the hexagons are based upon 2016 conditions, and the project site was vacant, there are no applicable hexagons that apply to the entirety of the project. On the northeast corner of the project site, the hexagon which includes the northwest (employment) corner of Westlake, the VMT per employee is shown as 103% of the regional average.

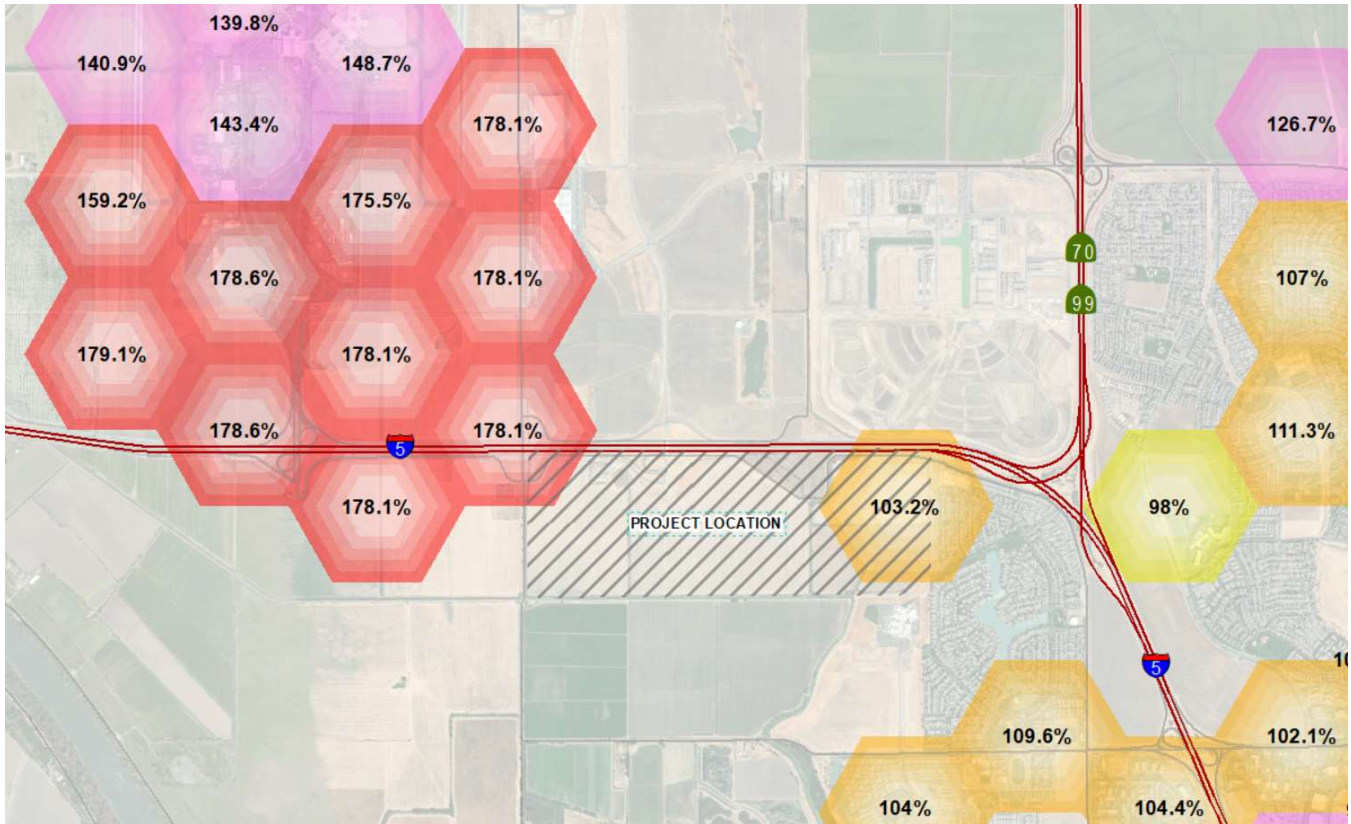


FIGURE 1: VMT EMPLOYMENT SCREENING MAP

Near the northwest corner of the project site, several hexagons are located at and adjacent to Sacramento International Airport. The VMT per employee is shown as 178% of the regional average. The SACOG screening map does not provide information for most of Metro Airpark, as the calculations are based upon 2016 conditions. Based upon this information, the industrial portion of the project does not meet the screening criteria.

TRAVEL DEMAND MODEL ANALYSIS

TRAVEL DEMAND MODEL

The CEQA VMT analysis is based on the latest SACOG SACSIM-19 activity-based travel demand model (ABM) including scripts prepared by SACOG for this very analysis purpose. The analysis is tour-based, meaning that the analysis fully accounts for trips that are linked to trips that start or end at the project. This means that intermediate trips, such as those occurring after someone has left the project area, such as a trip to pick-up lunch while at work, are accounted for in this analysis.

Based on the latest SACOG model scripts, SACSIM-19 also reflects the entire trip length, including the portion of the trip that occurs outside the SACOG region. External-internal and internal-external

VMT is calculated via a script file provided by SACOG and included in their model for VMT post-processing. The post-processor determines the added VMT that occurs outside the SACOG region (i.e., for trips that either start or end outside of the region). This interregional VMT is then added to the internal-internal VMT to determine the total VMT. Consistent with OPR guidelines, only automobile trips are considered as a part of this analysis. Heavy-duty truck and delivery vehicle VMT as well as alternative mode VMT (transit vehicles) are not reflected.

PROJECT USE (VMT PER EMPLOYEE METRIC)

For work-based land uses of the proposed project, SACSIM-19 was used with a modified version of the SACOG script to meet guidance from the Office of Planning and Research (OPR) as previously discussed. A regional baseline (2016) average VMT per employee metric was used to establish the threshold set at 100% of the regional average.

For the industrial portion of the project, the average VMT is calculated as 128% of the regional average.

HIGHWAY COMMERCIAL VMT ANALYSIS

The highway commercial area of the project includes the uses shown in **Table 1**.

TABLE 1: HIGHWAY COMMERCIAL LAND USE SUMMARY

PARCEL	USE	PARCEL SIZE (ACRES)	BUILDING SIZE (SQARE FEET)
6A	Restaurant	2.1	3,900
6B	Restaurant	1.5	3,900
6C	Fueling Station / Carwash	3.0	8,100
7A	Hotel	4.0	73,400
7B	Restaurant	1.5	3,900
7C	Restaurant	1.3	5,000

Source: Wood Rodgers, June 20, 2022.

- The proposed uses are ubiquitous throughout the area, with many competitors at nearby I-5 interchanges (Del Paso Road and Arena Boulevard). This includes restaurants, fueling stations, carwashes, convenience stores, and hotels.
- The highway commercial uses would serve travelers and employees associated with Sacramento International Airport. These trips could reduce VMT by potentially diverting a trip from a destination located farther from the airport.
- The highway commercial uses would also serve the industrial uses of the project, as well as the development of Metro Airpark. These trips could reduce VMT by potentially diverting a trip from a destination located farther from the project and Metro Airpark.
- With the exception of the hotel, all of the projects are less than 50,000 square feet, which is a “rule of thumb” for VMT screening of retail projects.

VMT IMPACT

INDUSTRIAL USES

The travel model VMT analysis estimates the average VMT of the industrial uses as 128% of the regional average. This is a significant impact.

HIGHWAY COMMERCIAL USES

Based upon the nature of the highway commercial uses, it is concluded that the highway commercial uses meet the retail screening criteria. This is a less-than-significant impact.

APPENDIX Q



AVDIS & CUCCHI, LLP
LAND USE + REAL ESTATE + ADVOCACY

DRAFT MEMORANDUM

DATE: September 26, 2023
TO: Pelle Clarke, Senior Engineer
FROM: Daniel S. Cucchi, Attorney for Applicant
CC: Nick S. Avdis, Attorney for Applicant
SUBJECT: P21-017 Airport South Industrial - VMT Mitigation Measures

I. Introduction & Background

The intent of this memo is to outline the P21-017 Airport South Industrial Vehicle Miles Traveled (VMT) mitigation approach and corresponding calculations for the project. The project proposes to develop approximately 470 acres of vacant land for industrial and commercial uses in North Natomas that would be annexed into the City of Sacramento. The project is located south of I-5 and west of the Westlake community. The proposed project would connect to the I-5 Metro Air Parkway interchange as well as Powerline Road to the west and Bayou Way to the east.

Per the DKS Draft VMT Analysis dated March 10, 2023, the proposed project would result in an average VMT calculated as 128% of the regional average and is considered a significant impact. Since the Office of Planning and Research (OPR) does not specify a particular significance threshold for industrial employment, OPR recommends local jurisdictions to determine this threshold based on local conditions. Local jurisdictions in the region such as Sacramento County and City of Rancho Cordova have determined the significance threshold for industrial employment as 100% of regional average. Consistent with nearby jurisdictions, the City has established the significance threshold of 100% of regional average for industrial uses. With the 100% significance threshold, the project is required to mitigate **22%** ($1 - 1.00/1.28 = 0.22$) to achieve a less-than significant impact for VMT. Consistent with SB 743, OPR's Technical Advisory, and California Air Pollution Control Officers Association (CAPCOA), the proposed project is required to mitigate VMT utilizing CAPCOA's Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity dated December 2021 (CAPCOA 2021 Handbook).

The applicant proposes a mitigation measure which allows for the owner/operator of a building (or set of buildings) within the project site, prior to the issuance of a certificate of occupancy, to submit and receive City approval of a VMT Reduction Plan that includes a commitment to implement a selection of VMT reduction strategies (listed below) from the CAPCOA 2021 Handbook, totaling at or more than a 22% reduction in VMT for the covered building sites. The proposed VMT reduction plan must comply with the CAPCOA rules to prevent double-counting, and provide documentation calculating the VMT reduction value of each adopted measure as applied to the specific building site(s) and operations.

II. CAPCOA Transportation Quantitative GHG Reduction Measures

CAPCOA's 2021 Handbook outlines the quantitative reduction measures that can be used to mitigate VMT impacts. There are 6 categories within the Transportation section with corresponding subsections for quantifying VMT mitigation measures.

Below are the 6 categories:

1. Land Use
2. Trip Reduction Programs
3. Parking or Road Pricing/Management
4. Neighborhood Design
5. Transit
6. Clean Vehicles and Fuels

Given the largely industrial and highway commercial nature of the project and no existing or planned transit within the project's vicinity, all but the **Trip Reduction Programs** category can be eliminated when identifying applicable VMT mitigation measures for the project. Below are mitigation options within the Trip Reduction Programs category with its subsequent maximum percentages to reduce VMT, as calculated below in this memorandum:

- T-6 Implement Commute Trip Reduction Program (Mandatory Implementation & Monitoring) – 26%
- T-7 Implement Commute Trip Reduction Marketing – 4%
- T-8 Provide Ridesharing Program – 8%
- T-9 Implement Subsidized or Discounted Transit Program – 1.2%
- T-10 Provide End-of-Trip Bicycle Facilities – 2.5%
- T-11 Provide Employer-Sponsored Vanpool – 1.4%
- T-12 Price Workplace Parking – 20%
- T-13 Implement Employee Parking Cash-Out – 12%

While the Trip Reduction Programs category allows for mitigating VMT up to a maximum of 45%, it also identifies additional limitations for quantifying the mitigation percentages to reduce VMT. Each subsector of mitigation options identifies how some mitigation options have mutually exclusive measures, as well as expanded mitigation options. The mutually exclusive measures identify which measures cannot be credited together as it would be considered double counting.

III. Limitations to Avoid Double-Counting

As identified in CAPCOA's 2021 Handbook, T-6 requires the implementation of a Commute Trip Reduction (CTR) Program that allows for a maximum of 26% for mitigating VMT. Within the implementation requirements, it explicitly outlines T-7 through T-11 cannot be used with this option. The mandatory CTR includes T-7 through T-11 and therefore cannot be added if T-6 is used. The

expanded mitigation options for T-6 are identified to be T-12 or T-13 (cannot be both). Below is a list of implementation requirements for T-7 through T-11:

- T-7 Implement Commute Trip Reduction Marketing
 - Onsite or online commuter information services
 - Employee transportation coordinators
 - Onsite or online transit pass sales
 - Guaranteed ride home services
- T-8 Provide Ridesharing Program
 - Ridesharing must be promoted through a multifaceted approach
 - Designating a certain percentage of desirable parking spaces for ridesharing vehicles
 - Designating adequate passenger loading and unloading and waiting areas for ridesharing vehicles
 - Providing an app or website for coordinating rides
- T-9 Implement Subsidized or Discounted Transit Program
 - The project should be accessible either within 1 mile of high-quality transit service, 0.5 mile of local or less frequent transit service, or along a designated shuttle route providing last-mile connections to rail service
- T-10 Provide End-of-Trip Bicycle Facilities
 - End-of trip facilities should be installed at a size proportional to the number of commuting bicyclists and regularly maintained
- T-11 Provide Employer-Sponsored Vanpool
 - Vanpool programs are more appropriate for the building occupant or tenant to implement and monitor than the building owner or developer

Thus, an operator may select T-6, but cannot also select any of T-7 through T-11. Furthermore, an operator cannot select both T-12 and T-13, regardless of whether they select T-6, or one or more of T-7 through T-11.

IV. Sample Calculations For Trip Reduction Programs T-6 Through T-13

GHG Calculations for T-6

Following the GHG formula and variables for T-6, the following calculations are provided below with representation of the corresponding variables:

GHG Reduction Formula: $A = B \times C \times D$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from project/site employee commute VMT	0 – 26.0	%	calculated
B	Percent of employees eligible for program	0 – 100	%	User input
C	Percent reduction in vehicle mode share in employee commute trips	-26	%	Nelson\Nygaard Consulting Associates 2015
D	Adjustment from vehicle mode share to commute VMT	1	unitless	assumed

$$A = 1 \times (-0.26) \times 1 = -26\%$$

With the recommendation in CAPCOA for 100% for variable B, the resulting maximum percentage for reduction is **-26%** for mitigating VMT.

GHG Calculations for T-7

Following the GHG formula and variables for T-7, the following calculations are provided below with representation of the corresponding variables:

$$\text{GHG Reduction Formula: } A = B \times C \times D$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from project/site employee commute VMT	0 – 4.0	%	calculated
B	Percent of employees eligible for program	0 – 100	%	User input
C	Percent reduction in employee commute vehicle trips	-4	%	TRB 2010
D	Adjustment from vehicle trips to VMT	1	unitless	assumed

$$A = 1 \times (-0.04) \times 1 = -4\%$$

With the recommendation in CAPCOA for 100% for variable B, the resulting maximum percentage for reduction is **-4%** for mitigating VMT.

GHG Calculations for T-8

Following the GHG formula and variables for T-8, the following calculations are provided below with representation of the corresponding variables:

$$\text{GHG Reduction Formula: } A = B \times C$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from project/site employee commute VMT	0 – 8.0	%	calculated
B	Percent of employees eligible for program	0 – 100	%	User input
C	Percent reduction in employee commute VMT	-8 (Urban)	%	SANDAG 2015

$$A = 1 \times (-0.08) \times 1 = -8\%$$

With the recommendation in CAPCOA for 100% for variable B, the resulting maximum percentage for reduction is **-8%** for mitigating VMT.

GHG Calculations for T-9

Following the GHG formula and variables for T-9, the following calculations are provided below with representation of the corresponding variables:

$$GHG\ Reduction\ Formula: A = (C/B) \times G \times D \times E \times F \times H \times I$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from employee vehicles accessing the site	0 – 5.5	%	calculated
B	Average transit fare without subsidy	\$100/mo.	\$	User input
C	Subsidy Amount	\$100/mo.	\$	User input
D	Percent of employees eligible for subsidy	0 – 100	%	User input
E	Percent of project-generated VMT from employees	0 – 100	%	User input
F	Transit mode share of work trips	5.44% (Table T-9.1)	%	FHWA 2017
G	Elasticity of transit boardings with respect to transit fare price	-0.43	unitless	Taylor et al. 2008
H	Percent of transit trips that would otherwise be made in a vehicle	50	%	Handy & Boarnet 2013
I	Conversion factor of vehicle trips to VMT	1	unitless	assumption

$$A = (100/100 \times -0.43) \times 1 \times 1 \times 0.0544 \times 0.50 \times 1$$

With the recommendation in CAPCOA for 100% for variables D and E, the resulting maximum percentage for reduction is **-1.2%** for mitigating VMT.

GHG Calculations for T-10

Following the GHG formula and variables for T-10, the following calculations are provided below with representation of the corresponding variables:

$$GHG\ Reduction\ Formula: A = [C \times (E - (B \times E))] / (D \times F)$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from employee project/site commute VMT	0.1 – 4.4	%	calculated
B	Bike mode adjustment factor	1.78 or 4.86	%	Buehler 2012
C	Existing bicycle trip length for all trips in region	2.9	miles	FHWA 2017a
D	Existing vehicle trip length for all trips in region	10.9	miles	FHWA 2017a
E	Existing bicycle mode share for work trips in region	2.2	%	FHWA 2017b
F	Existing vehicle mode share for work trips in region	89.5	%	FHWA 2017b

$$A = [(2.9 \times (.022 - (4.86 \times .022))] / (10.9 \times .895) = -2.5\%$$

The resulting maximum percentage for reduction is **-2.5%** for mitigating VMT (assuming facilities include bike parking, showers, and lockers).

GHG Calculations for T-11

Following the GHG formula and variables for T-11, the following calculations are provided below with representation of the corresponding variables:

$$GHG\ Reduction\ Formula: A = (((1 - B) \times C) + (B \times (D / E)) / C) - 1$$

ID	Variable	Value	Unit	Source
A	Percent reduction in project/site employee commute VMT	3.4 – 20.4	%	calculated
B	Percent of employees that participate in van pool program	2.7	%	SANDAG 2019
C	Average length of one-way vehicle commute trip in region	14.23	miles per trip	FHWA 2017
D	Average length of one-way vanpool commute trip	42	miles per trip	SANDAG 2019
E	Average vanpool occupancy (including driver)	6.25	occupants	SANDAG 2019

$$A = (((1 - .027) \times 14.23) + (.027 \times (42 / 6.25)) / 14.23) - 1 = -1.4\%$$

The resulting maximum percentage for reduction is **-1.4%** for mitigating VMT.

GHG Calculations for T-12

Following the GHG formula and variables for T-12, the following calculations are provided below with representation of the corresponding variables:

$$GHG\ Reduction\ Formula: A = ((B - C) / C) \times E \times D \times F$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from employee commute VMT	0 – 20.0	%	calculated
B	Proposed parking price	100/mo	\$	user input
C	Baseline parking price	0	\$	user input
D	Share of employees paying for parking	100	%	user input
E	Elasticity of parking demand with respecting to parking price	-0.4	unitless	Lehner & Peer 2019
F	Ratio of vehicle trip reduction to VMT	1	unitless	assumption

$$A = .50 \times -0.4 \times 1 \times 1 = -20\%$$

Because the maximum allowed price increase of 50% is lower than the maximum increase for a new build project which by definition is 100%, the formula replaces the price increase calculation $((B - C) / C)$, with 50%. The resulting maximum percentage for reduction is **-20%** for mitigating VMT.

GHG Calculations for T-13

Following the GHG formula and variables for T-13, the following calculations are provided below with representation of the corresponding variables:

$$GHG\ Reduction\ Formula: A = B \times C$$

ID	Variable	Value	Unit	Source
A	Percent reduction in GHG emissions from project/site commute VMT	0 – 12.0	%	calculated
B	Percent of employees eligible	100	%	User input
C	Percent reduction in commute VMT from implementation of measure	-26	%	Shoup 2005

$$A = 1 \times -0.12 = -12\%$$

With the recommendation in CAPCOA for 100% for variable B, the resulting maximum percentage for reduction is **-12%** for mitigating VMT.

V. Viability of VMT Reduction Plan Mitigation Strategy

Some of the above Trip Reduction Programs discussed above include variables that are determined by data provided by CAPCOA for the region where the project site is located. Data provided by CAPCOA for the Sacramento Region was used as the input for that variable. In all other cases involving a variable, the applicant has the discretion to select the input (e.g., how many employees are eligible), and can therefore control the relative VMT reduction value of the selected Trip Reduction Programs.

Thus, applying the double-counting rules, and the calculated values of each of the available VMT Reduction Programs for the Sacramento Region, an operator can achieve a 22% reduction target in several different ways.

For instance, an operator may select T-6 (Maximum 26% reduction), T-6 and T-12 (Maximum 45% reduction), or T-6 and T-13 (Maximum 38% reduction), each of which is capable of meeting the mitigation requirements of a minimum 22% VMT reduction. Alternatively, an operator may select T-12 and one or more of T-7 through T-11 (maximum 37.1% reduction), or select T-13 and at least two or more of T-7 through T-11 (maximum 29.1% reduction), either of which are also capable of meeting the mitigation requirements for a minimum 22% VMT reduction. Thus, the operator has full control to ensure the selected Trip Reduction Programs will be able to meet the required -22% reduction target.

VI. Conclusion

Based on the CAPCOA calculations for T-6 through T-13 under the Trip Reduction Programs subsector, the project would be able to mitigate the **128%** VMT impact to be less-than significant through the selection of multiple Trip Reduction Programs to achieve a minimum **-22% VMT** reduction. The owner/operator of each building site(s) shall be required to submit for approval and implement a VMT Reduction Plan that includes a sufficient selection of Trip Reduction Programs T-6 through T-13, while complying with the double-counting rules and providing building site(s) specific calculations, to reduce VMT by at least 22%. Please see attached Appendices for excerpts from the CAPCOA Handbook for additional guidance on the calculations presented in this memo. The full Transportation Chapter of the CAPCOA Handbook can be found through the following link:

https://www.caleemod.com/handbook/chapter_3_1transportation.html.