Appendix A:
EIR Noticing and Public Involvement

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A.1 - Notice of Preparation

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THE CITY OF JURUPA VALLEY

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE PROPOSED RIO VISTA SPECIFIC PLAN

DATE: November 26, 2021

TO: Responsible Agencies
Organizations
Interested Parties

PROJECT CASE NO./TITLE: Project Title: MA16045 Rio Vista Specific Plan

Specific Plan No. SP16001

Notice is hereby given that the City of Jurupa Valley (City) as lead agency will be preparing a Draft Environmental Impact Report (Draft EIR) for the proposed project identified below. We are requesting your comments on the scope and content of the Draft EIR.

PURPOSE OF THE NOTICE OF PREPARATION: The purpose of this notice is to: (1) serve as the Notice of Preparation to the Governor's Office of Planning and Research (OPR), Responsible Agencies, public agencies involved in funding or approving the proposed project, and Trustee Agencies responsible for natural resources affected by the proposed project, pursuant to CEQA Guidelines Section 15082; and (2) advise and solicit comments and suggestions regarding the scope and content of the Draft EIR to be prepared for the proposed project, and (3) to provide notice of the public scoping meeting.

The following proposed entitlements are being sought for the proposed project:

1. New Specific Plan to replace the existing Rio Vista Specific Plan
2. General Plan Amendment
3. Change of Zone, to allow for adoption of a Zoning Ordinance for the proposed project and to modify the zone from SP No. 243 to a new SP Zone
4. Development Agreement
5. Annexation to water and sewer districts
6. United States Army Corps of Engineers Section 404 Permit
7. Regional Water Quality Control Board Section 401 Permit
8. California Department of Fish and Wildlife Section 1602 Permit

PROJECT LOCATION

The City of Jurupa Valley covers approximately 43.5 square miles within the County of Riverside. The City is bordered by the City of Fontana and the County of San Bernardino to the north, the City of Norco to the south, the City of Eastvale to the west, and the City of Riverside and the County of San Bernardino to the east. The proposed project is located north of California State Route (SR) 60 between Armstrong Road and Rubidoux Boulevard in Jurupa Valley, California. The proposed project is located within the Rio Vista Specific Plan Area. The site is vacant, undeveloped, and comprises approximately 917.3 acres. Access to the site is available from SR-60 (See Exhibit 1, Regional Location Map and Exhibit 2, Local Vicinity Map). The project site includes the following 17 Assessor's Parcel Numbers (APNs): 175-080-010 and -021, 175-090-001, -002, -003, -004, and -005, 175-100-003, -005, and -006, 175-150-002, 175-160-001 and -005, 177-030-012 and -0014, and 177-040-002 and -008 (see Exhibit 3).

PROJECT DESCRIPTION

The proposed project consists of a new Specific Plan to replace the existing Rio Vista Specific Plan, initially approved by Riverside County in 1992. The following Project Description outlines the major elements of the Specific Plan.

A Notice of Preparation for a previous version of the Rio Vista Specific Plan was submitted to the OPR in December 2018 (State Clearinghouse [SCH] No. 2018121005). However, the 2018 version of the Rio Vista Specific Plan was not finalized and an EIR was not prepared.

Residential land uses within the proposed project would consist of Very Low Density Residential (VLDR), Medium Density Residential (MDR), Medium-High Density Residential (MHDR), High Density Residential (HDR), and Highest Density Residential (HHDR). Additionally, the proposed project would include an elementary school, a community park and open spaces, and circulation improvements. Light Industrial (LI) and Business Park (BP) areas are included in the proposed project as well (see Table 1: Specific Plan Land Use Summary and Exhibit 2: Local Vicinity Map

: Land Use Plan).

The proposed Specific Plan includes the following major land use components:

- Up to 1,697 dwelling units (du) on 204.4 acres, yielding an average density of 1.8 du/ac
- 1,269,774 square feet of Light Industrial building square footage on 58.3 acres
- 1,428,768 square feet of Business Park building square footage on 82.0 acres
- 510.8 acres of natural open space
- 14.3 acres of recreational amenities
- 13.4 acres for a new public elementary school

The Specific Plan divides the site into 21 Planning Areas (PAs) as detailed in Table 1.

Table 1: Specific Plan Land Use Summary

PA	Land Use	Acres	Target DUs[1]	Maximum DUs	Target Density[1]	Density Range[1]
1	Medium Density Residential (MDR)	24.9	113	125	4.5	2.0–5.0
2	Medium Density Residential (MDR)	22.7	107	114	4.7	2.0–5.0
3	Medium High Density Residential (MHDR)	19.4	149	155	7.7	5.0–8.0
4	High Density Residential (HDR)	18.2	225	455	12.4	8.0–14.0
5	High Density Residential (HDR)	13.3	116	186	8.7	8.0–14.0
6	High Density Residential (HDR)	27.1	258	379	9.5	8.0–14.0
7	Medium Density Residential (MDR)	11.1	45	56	4.1	2.0–5.0
8	Medium High Density Residential (MHDR)	39.6	259	317	6.5	5.0–8.0
9	Highest Density Residential (HHDR)	21.7	420	543	19.4	21.0–25.0
10	Very Low Density Residential (VLDR)	2.6	2	2	0.8	2.0
11	Very Low Density Residential (VLDR)	3.8	3	3	0.8	2.0
12	Light Industrial	38.1	–	–	–	–
13	Light Industrial	20.2	–	–	–	–
14	Business Park Area	31.9	–	–	–	–
15	Business Park Area	32.1	–	–	–	–
16	Business Park Area	18.0	–	–	–	–
17	Public Facility–Water Tanks (PF)	1.4	–	–	–	–
18	Public Facility–School (PF)[2]	13.4	56	67	3.8	2.0–5.0
19	Open Space–Recreation (Parks & Trails)	14.3	–	–	–	–
20	Open Space–Water (Basin)	9.0	–	–	–	–
21 A-E	Open Space Conservation (Natural, Slopes)	510.8	–	–	–	–

PA	Land Use	Acres	Target DUs[1]	Maximum DUs	Target Density[1]	Density Range[1]
–	Expanded Parkway (Trails) (OS-R)	4.1	–	–	–	–
–	Circulation	19.6	–	–	–	–
Project Totals		**917.3**	**1,697[1]**	**N/A**	**1.8**	–

Notes:
1 Dwelling Unit (DU) count by Planning Area (PA) is approximate and may vary by PA and may increase or decrease by up to 10 percent, provided that the overall Dwelling Units in Rio Vista do not exceed the Target Dwelling Unit Count of 1,697. The target density of each PA may increase or decrease provided that the target density remains below the maximum density of the land use designation.
2 The School Site in Planning Area (PA) 18 may be developed with a Medium Density Residential use at a maximum of 56 DUs, if the School District does not purchase school site by the buildout of the 800th residential unit (Section II.A.1.C.). In response to market demands, non-residential uses (mixed use, office, commercial, religious) may be developed in PA 18 subject to a Conditional Use Permit. The potential alternative 56 DUs are not included in the 'Project Totals'.
3 Park acreage is approximate and may be larger or smaller, provided that the overall park acreage in the Specific Plan meets or exceeds the City's park requirements of 3-acres per 1,000 population.
4 Open Space-Conservation includes natural areas, common areas, landscaped slopes, and conservation areas. It does not include park acreage.
5 Acreages are approximate–exact acreage will be defined through future implementing tract map(s).
Source: City of Jurupa, 2018.

As shown in Table 1, 11 PAs are proposed for residential development. PA 18 would be reserved for development of a K-8 school by the Jurupa Unified School District (JUSD), once the 800th building permit is issued by the City. If JUSD has not closed escrow and purchased PA 18 by that point, PA 18 would be available for residential development under its MDR land use designation.

The proposed project would contain approximately 510.8 acres of open space (conservation), consisting of a combination of natural open space, revegetated manufactured slopes, and regraded and revegetated slopes. Many of the existing informal trails would remain, and no new trails would be created into the open space. Recreational amenities would include a 14.3-acre community park with sports fields, open turf play areas, sports courts, a tot lot/playground, and picnic areas. Approximately five neighborhood parks, between 0.75 acres and 1 acre in size, would be located throughout the community and would have features such as benches, planters, and open lawn areas. In addition, an integrated system of hard- and soft-surface (decomposed granite) trails would provide access from the residential neighborhoods to the school site, the community park, and the informal dirt trails located in the open space area. Finally, a bike path and soft-surface trail would be provided within a 30-foot-wide easement along 20th Street through the central portion of the site. Total recreational areas would be approximately 529.2 acres, or 58 percent of the project site.

Approximately 140.3 acres located in the eastern portion of the site would be dedicated for a commerce center, which would include Light Industrial uses on approximately 58.3 acres with a maximum of 1,269,774 square feet of building space, and a Business Park on approximately 82.0 acres with a maximum of 1,428,768 square feet of building space. The commerce center is intended to attract new businesses and encourage the creation of new light industrial, light manufacturing, research, self-storage, professional and retail services to serve the City of Jurupa Valley and the new residents that would live within the Rio Vista Specific Plan area.

Construction of approximately 19.6 acres of roadways, including an approximately 1.3-mile extension of 20th Street developed as a Modified Secondary Highway (100-foot right-of-way), would also be included as part of the proposed project.

The proposed project would be completed in six phases, which would be timed to respond to market demands to provide a logical and orderly extension of roadways, public utilities, and infrastructure. Development would generally start in the northwestern area of the Specific Plan, proceed east in Phase 2, then move to the southwest in Phases 3 and 4. PA 7, located in the far northwest of the Specific Plan area, would likely be developed last, as Phase 5. However, phases would be taken in any order that would allow for logical and orderly development.

Environmental Issues: CEQA Guidelines Section 15063 provides that if a Lead Agency determines that an EIR will clearly be required for a project, an Initial Study is not required. The EIR that will be prepared for the proposed project is a full-scope EIR, including each of the CEQA Guidelines Appendix G topical issue areas. Potential impacts associated with environmental resource areas that will be analyzed in the EIR include those listed below. A full-scope EIR is proposed, so there are no environmental topics that have been screened out or that are considered potentially less than significant.

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation/Traffic
- Tribal Cultural Resources
- Utilities/Service Systems
- Wildfire

The EIR will address the short-term and long-term effects of the proposed project on the environment. The EIR will also evaluate the potential for the proposed project to cause direct and indirect growth-inducing impacts, as well as cumulative impacts. Alternatives to the proposed project will be evaluated in the EIR. Mitigation measures will be proposed for those impacts that are determined to be potentially significant. A mitigation monitoring program will also be developed as required by Section 15097 of the California Environmental Quality Act (CEQA) Guidelines.

LEAD AGENCY
City of Jurupa Valley Planning Department
Attn: Jim Pechous, Principal Planner
8930 Limonite Avenue, Jurupa Valley, CA 92509
Phone: 951-322-6464
Email: Jpechous@jurupavalley.org

PROJECT SPONSOR
Applicant: Brian Hardy
Address: 3161 Michelson Dr., Suite 425
Irvine, CA 92612
949-698-2191

The environmental determination in this Notice of Preparation is subject to a 30-day public review period pursuant to California Public Resources Code Section 21080.4 and CEQA Guidelines Section 15082. Public agencies, interested organizations, and individuals have the opportunity to comment on the environmental issues that have the potential to be affected by the proposed project and that should be addressed in the EIR. Relevant information should be submitted to this office as soon as possible, but no later than thirty (30) days after receiving this notice beginning November 26, 2021 and ending at the close of business on December 26, 2021. All comments must be submitted in writing to Jim Pechous, Principal Planner at 8930 Limonite Avenue, Jurupa Valley, CA 92509 or by email at jpechous@jurupavalley.com.

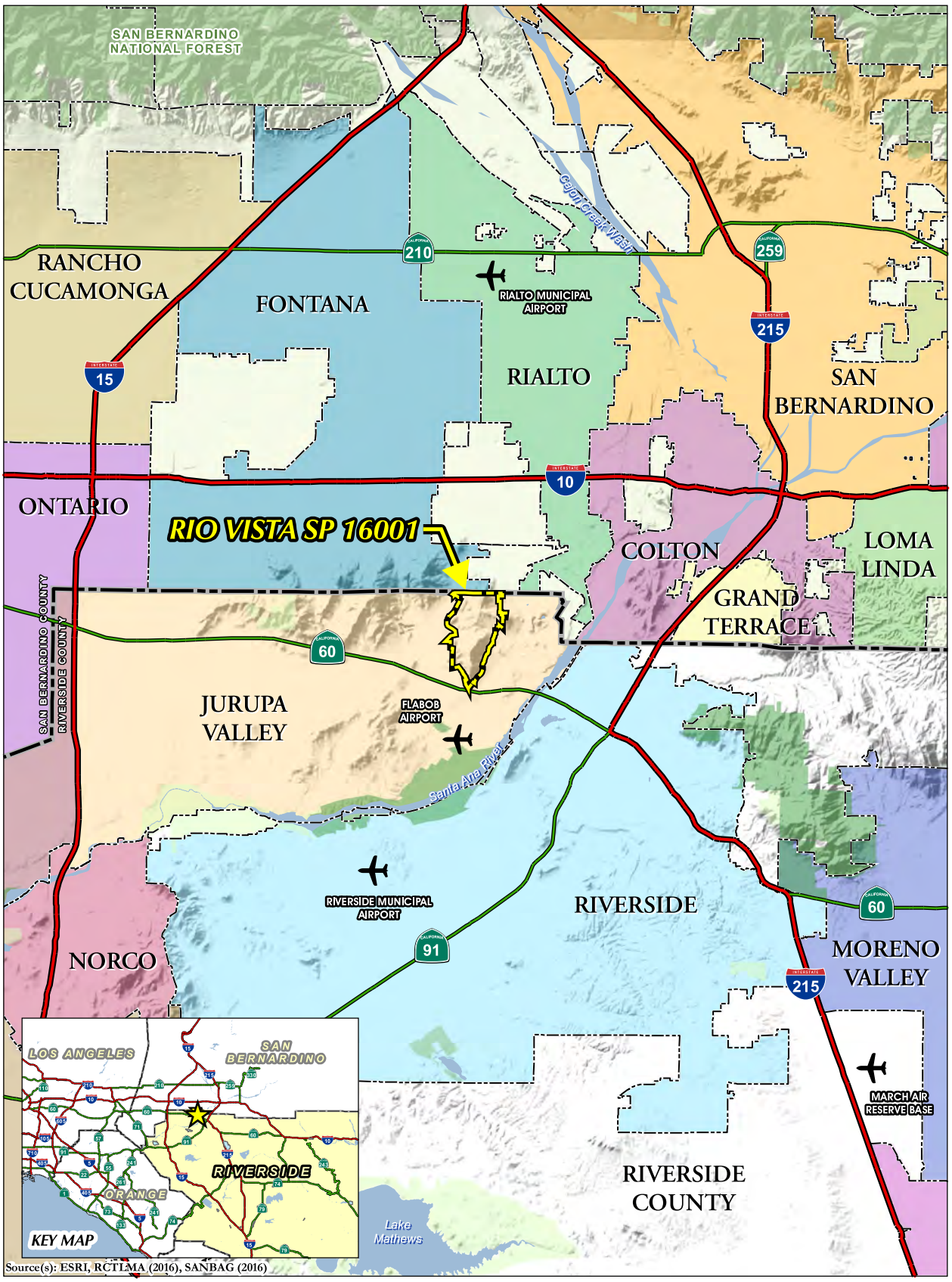
PUBLIC SCOPING MEETING

A public scoping meeting will be held on Tuesday, December 14 2021 at 2:00 PM at the City of Jurupa Valley City Council Chamber, 8930 Limonite Avenue, Jurupa Valley, CA 92509. At this meeting, public agencies, organizations, and members of the public will be able to review the proposed project application materials and provide comments on the scope of the environmental review process. If you have any questions please contact Jim Pechous, Principal Planner at 951-322-6464.

Sincerely,



Jim Pechous, Principal Planner
City of Jurupa Valley



Source: t&b planning

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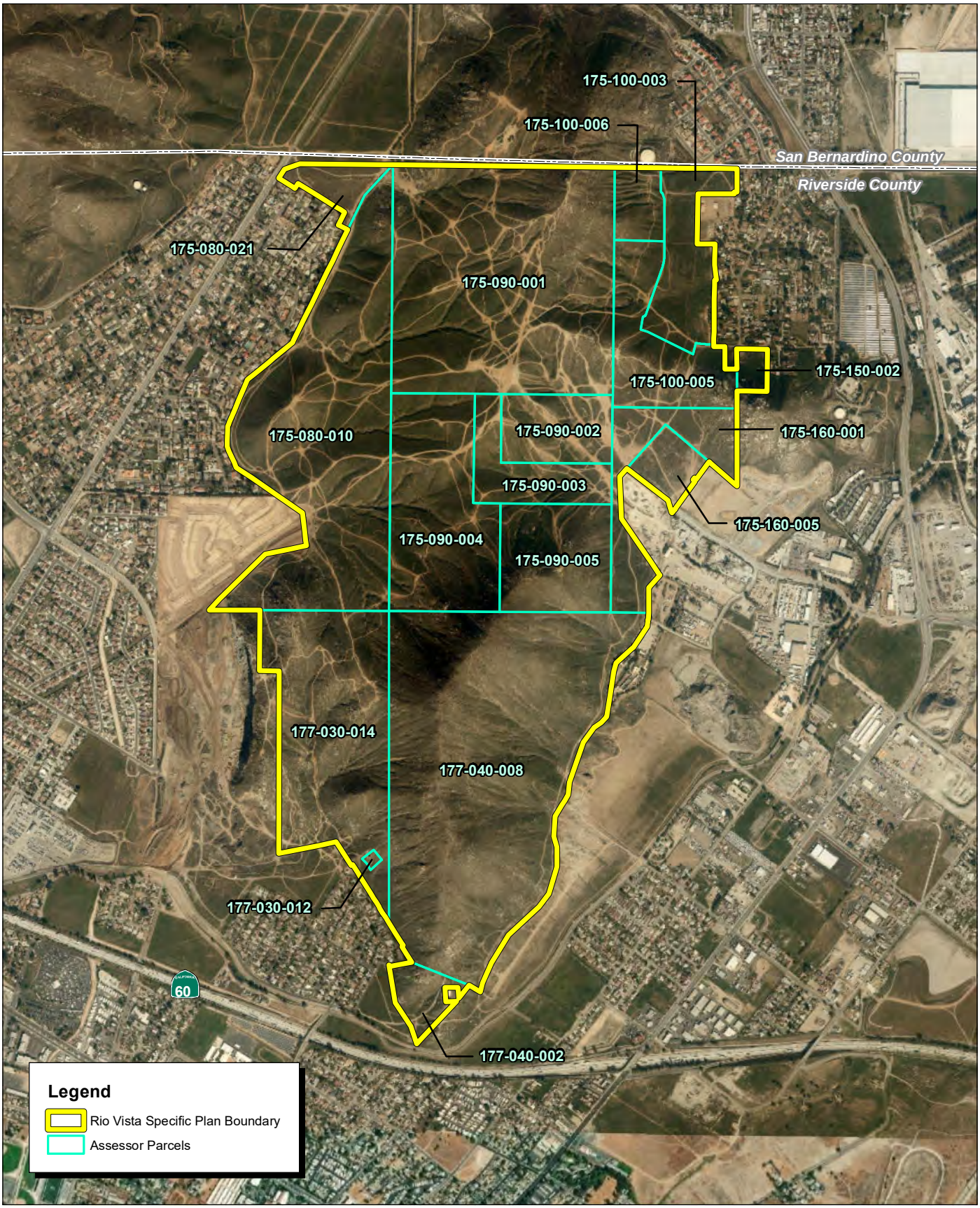
Exhibit 1
Regional Location Map



Source: t&b planning

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Exhibit 2
Local Vicinity Map

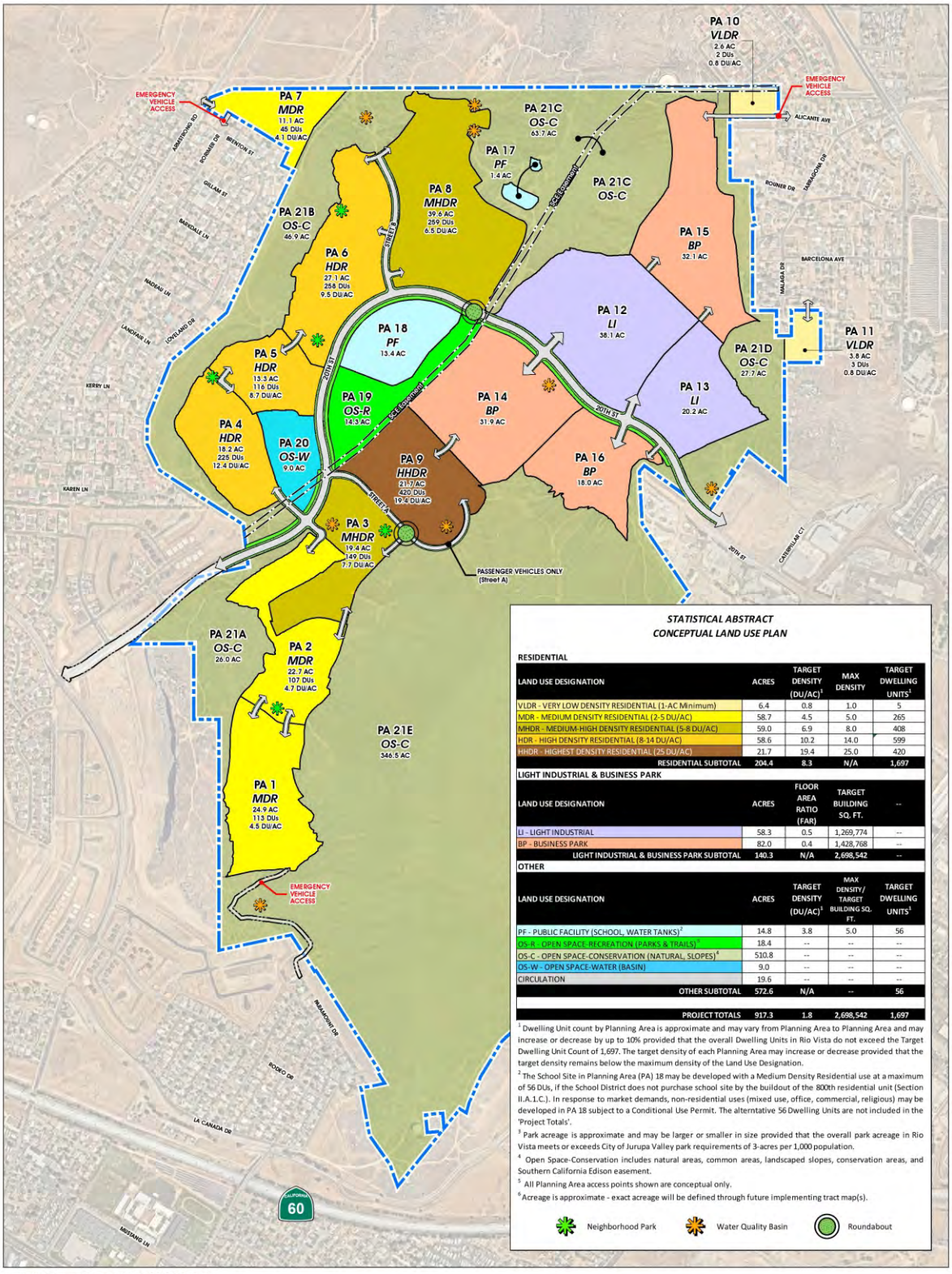


Source: ESRI Aerial Imagery. Riverside County.

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1,600 800 0 1,600 Feet

Exhibit 3
Assessor Parcel Numbers



STATISTICAL ABSTRACT
CONCEPTUAL LAND USE PLAN

RESIDENTIAL

LAND USE DESIGNATION	ACRES	TARGET DENSITY (DU/AC)[1]	MAX DENSITY	TARGET DWELLING UNITS[1]
VLDR - VERY LOW DENSITY RESIDENTIAL (1-AC Minimum)	6.4	0.8	1.0	5
MDR - MEDIUM DENSITY RESIDENTIAL (2-5 DU/AC)	58.7	4.5	5.0	265
MHDR - MEDIUM-HIGH DENSITY RESIDENTIAL (5-8 DU/AC)	59.0	6.9	8.0	408
HDR - HIGH DENSITY RESIDENTIAL (8-14 DU/AC)	58.6	10.2	14.0	599
HHDR - HIGHEST DENSITY RESIDENTIAL (25 DU/AC)	21.7	19.4	25.0	420
RESIDENTIAL SUBTOTAL	204.4	8.3	N/A	1,697

LIGHT INDUSTRIAL & BUSINESS PARK

LAND USE DESIGNATION	ACRES	FLOOR AREA RATIO (FAR)	TARGET BUILDING SQ. FT.	--
LI - LIGHT INDUSTRIAL	58.3	0.5	1,269,774	--
BP - BUSINESS PARK	82.0	0.4	1,428,768	--
LIGHT INDUSTRIAL & BUSINESS PARK SUBTOTAL	140.3	N/A	2,698,542	--

OTHER

LAND USE DESIGNATION	ACRES	TARGET DENSITY (DU/AC)[1]	MAX DENSITY/ TARGET BUILDING SQ. FT.	TARGET DWELLING UNITS[1]
PF - PUBLIC FACILITY (SCHOOL, WATER TANKS)[2]	14.8	3.8	5.0	56
OS-R - OPEN SPACE-RECREATION (PARKS & TRAILS)[3]	18.4	--	--	--
OS-C - OPEN SPACE-CONSERVATION (NATURAL, SLOPES)[4]	510.8	--	--	--
OS-W - OPEN SPACE-WATER (BASIN)	9.0	--	--	--
CIRCULATION	19.6	--	--	--
OTHER SUBTOTAL	572.6	N/A	--	56
PROJECT TOTALS	917.3	1.8	2,698,542	1,697

[1] Dwelling Unit count by Planning Area is approximate and may vary from Planning Area to Planning Area and may increase or decrease by up to 10% provided that the overall Dwelling Units in Rio Vista do not exceed the Target Dwelling Unit Count of 1,697. The target density of each Planning Area may increase or decrease provided that the target density remains below the maximum density of the Land Use Designation.

[2] The School Site in Planning Area (PA) 18 may be developed with a Medium Density Residential use at a maximum of 56 DUs, if the School District does not purchase school site by the buildout of the 800th residential unit (Section II.A.1.C.). In response to market demands, non-residential uses (mixed use, office, commercial, religious) may be developed in PA 18 subject to a Conditional Use Permit. The alterntative 56 Dwelling Units are not included in the 'Project Totals'.

[3] Park acreage is approximate and may be larger or smaller in size provided that the overall park acreage in Rio Vista meets or exceeds City of Jurupa Valley park requirements of 3-acres per 1,000 population.

[4] Open Space-Conservation includes natural areas, common areas, landscaped slopes, conservation areas, and Southern California Edison easement.

[5] All Planning Area access points shown are conceptual only.

[6] Acreage is approximate - exact acreage will be defined through future implementing tract map(s).

Neighborhood Park | Water Quality Basin | Roundabout

Source(s): Nearmap Imagery (2020), RCTLMA (2020)
Composite: Hunsaker and Associates (07-22-2021)

Source: t&b planning, August 5, 2021.

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Exhibit 4
Conceptual Land Use Plan

A.2 - Notice of Preparation Public Comments

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DEPARTMENT OF TRANSPORTATION
DISTRICT 8
PLANNING (MS 722)
464 WEST 4th STREET, 6th Floor
SAN BERNARDINO, CA 92401-1400
PHONE (909) 383-4557
FAX (909) 383-5936
TTY (909) 383-6300
www.dot.ca.gov/dist8

Make Conservation
A California Way of Life.

Thursday, December 16, 2021

Jim Pechous
Principal Planner
City of Jurupa Valley
Planning Department
8930 Limonite Avenue
Jurupa Valley, CA 92509

Rio Vista Amendment Specific Plan (RIV 60 PM 7.60)

Mr. Pechous,

We have completed our initial review for the above-mentioned proposal for the amendment to the Rio Vista Specific Plan approved in 1992. The amendment is to modify the distribution of land use designations, reduce the number of proposed units, increase the amount of preserved open space, and reduce the amount of grading. Project includes 1,239 dwelling units on 222.6 acres, 511.2 acres of natural open space, 125 acres of other space with 10 miles of trails, 14.3 acres of recreational amenities and 12.1 acres for a new public elementary school.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when proposed development may impact our facilities. Under the California Environmental Quality Act (CEQA), we are required to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Jurupa Valley due to the Project's potential impact to State facilities it is also subject to the policies and regulations that govern the SHS.

Our areas of concern, pertaining to State facilities, include hydrology/flooding and transportation/traffic issues in which the initial study identifies as having potentially significant impacts. Due to these potentially significant impacts and because the south portion of the Project area directly abuts SR-60 we recommend the following to be analyzed.

We recommend the following to be provided:

Traffic Study

- Please provide design details for high quality transit stops on 20th Street. Shelter, seating, trash receptacle, lighting etc. should be included.
- Redesignate some 10 acres of PA 12 or 14 for Neighborhood Commercial Land Use.
- Provide bike and pedestrian connections every 600 feet to 20th Street from PA's 3, 5, 6, 8, 12, 13, 14, 16, and 19.
- Provide bike lanes on both sides of 20th Street.

- Design all future buildings to have zero net energy use.
- Minimize surface parking ratios by allowing 50% below the minimum standard at industrial, business park and commercial land use.
- Provide bike facilities at all industrial, business park and commercial land uses (bike racks at building entrances, showers, lockers etc.)

If this proposal is revised in any way, please forward appropriate information to this Office so that updated recommendations for impact mitigation may be provided. If you have questions concerning these comments, or would like to meet to discuss our concerns, please contact Talvin Dennis at dennis.talvin.l@dot.ca.gov or (909) 383-7017 for assistance.

Sincerely,

Rosa F. Clark

ROSA F. CLARK
Office Chief
Land Development/Intergovernmental Review

NATIVE AMERICAN HERITAGE COMMISSION

RECEIVED
DEC 16 2021
CITY OF JURUPA VALLEY

December 7, 2021

Jim Pechous
City of Jurupa Valley
8930 Limonite Avenue
Jurupa Valley, CA 92509

Re: 2018121005, Rio Vista Specific Plan MA16045 Project, Riverside County

Dear Mr. Pechous:

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.

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Sara Dutschke
Miwok

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

AB 52

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: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

cc: State Clearinghouse

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL: December 21, 2021

Jpechous@jurupavalley.org
Jim Pechous, Principal Planner
City of Jurupa Valley, Planning Department
8930 Limonite Avenue
Jurupa Valley, California 92509

Notice of Preparation of a Draft Environmental Impact Report for the MA 16045 Rio Vista Specific Plan (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send a copy of the Draft EIR upon its completion and public release directly to South Coast AQMD as copies of the Draft EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

CEQA Air Quality Analysis

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website[1] as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod[2] land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds[3] and localized significance thresholds (LSTs)[4] to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road

[1] South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook.
[2] CalEEMod is available free of charge at: www.caleemod.com.
[3] South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[4] South Coast AQMD's guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA ***operational*** thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment[5].

Sensitive receptors are people that have an increased sensitivity to air pollution or environmental contaminants and include schools, daycare centers, nursing homes, elderly care facilities, hospitals, and residential dwelling units. The Proposed Project will include, among others, 1,697 residential units and is located in close proximity to State Route 60, and to facilitate the purpose of an EIR as an informational document, it is recommended that the Lead Agency perform a mobile source health risk assessment[5] to disclose the potential health risks[6].

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Draft EIR. The assumptions in the air quality analysis in the EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective*[7] is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process with additional guidance on strategies to reduce air pollution exposure near high-volume roadways available in CARB's technical advisory[8].

Mitigation Measures

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook[1], South Coast AQMD's Mitigation Monitoring and Reporting Plan for the 2016 Air Quality Management Plan[9], and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy[10].

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[5] South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[6] *Ibid.*
[7] CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* can be found at: http://www.arb.ca.gov/ch/handbook.pdf.
[8] CARB's technical advisory can be found at: https://www.arb.ca.gov/ch/landuse.htm.
[9] South Coast AQMD's 2016 Air Quality Management Plan can be found at: http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf (starting on page 86).
[10] Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf.

Health Risk Reduction Strategies

Many strategies are available to reduce exposures, including, but are not limited to, building filtration systems with MERV 13 or better, or in some cases, MERV 15 or better is recommended; building design, orientation, location; vegetation barriers or landscaping screening, etc. Enhanced filtration units are capable of reducing exposures. However, enhanced filtration systems have limitations. For example, in a study that South Coast AQMD conducted to investigate filters[11], a cost burden is expected to be within the range of $120 to $240 per year to replace each filter panel. The initial start-up cost could substantially increase if an HVAC system needs to be installed and if standalone filter units are required. Installation costs may vary and include costs for conducting site assessments and obtaining permits and approvals before filters can be installed. Other costs may include filter life monitoring, annual maintenance, and training for conducting maintenance and reporting. In addition, because the filters would not have any effectiveness unless the HVAC system is running, there may be increased energy consumption that the Lead Agency should evaluate in the Draft EIR. It is typically assumed that the filters operate 100 percent of the time while residents are indoors, and the environmental analysis does not generally account for the times when the residents have their windows or doors open or are in common space areas of the project. These filters have no ability to filter out any toxic gases. Furthermore, when used filters are replaced, replacement has the potential to result in emissions from the transportation of used filters at disposal sites and generate solid waste that the Lead Agency should evaluate in the Draft EIR. Therefore, the presumed effectiveness and feasibility of any filtration units should be carefully evaluated in more detail prior to assuming that they will sufficiently alleviate exposures to diesel particulate matter emissions.

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

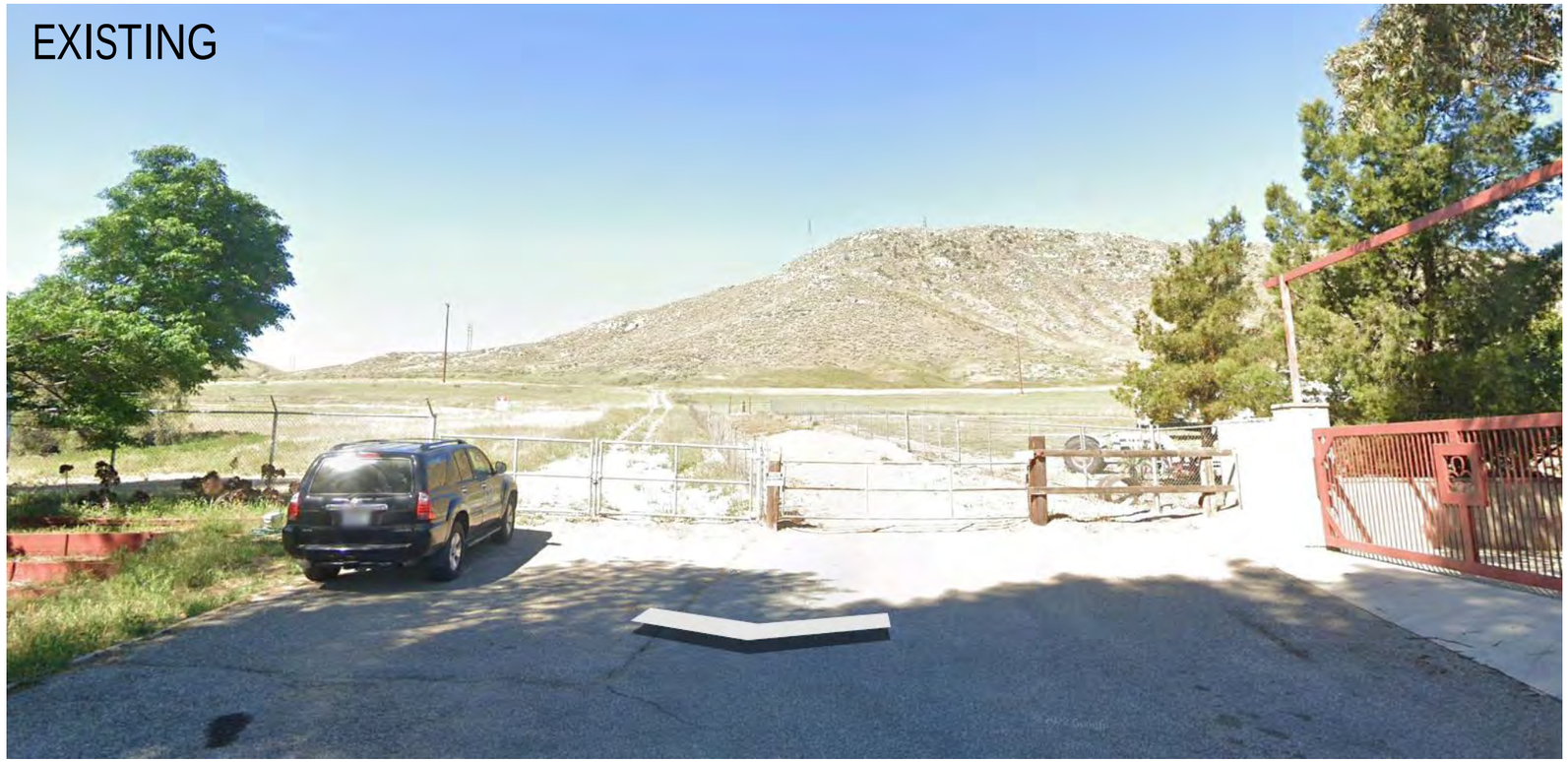
Lijin Sun
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
RVC211201-08
Control Number

[11] This study evaluated filters rated MERV 13 or better. Accessed at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/aqmdpilotstudyfinalreport.pdf. Also see 2012 Peer Review Journal article by South Coast AQMD: https://onlinelibrary.wiley.com/doi/10.1111/ina.12013.

Appendix B:
Aesthetics Supporting Information

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Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

VIEW SIM 1
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

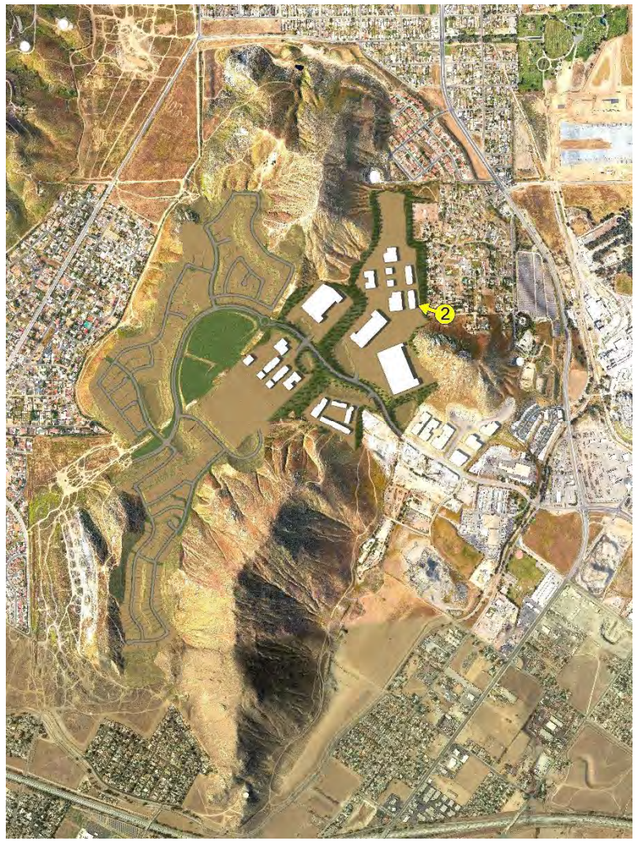




Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

VIEW SIM 2
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023





Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

VIEW SIM 3
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023





Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

VIEW SIM 4
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023





VIEW SIM 5
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

VIEW SIM 6
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

EXISTING



PROPOSED



Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

Key Map



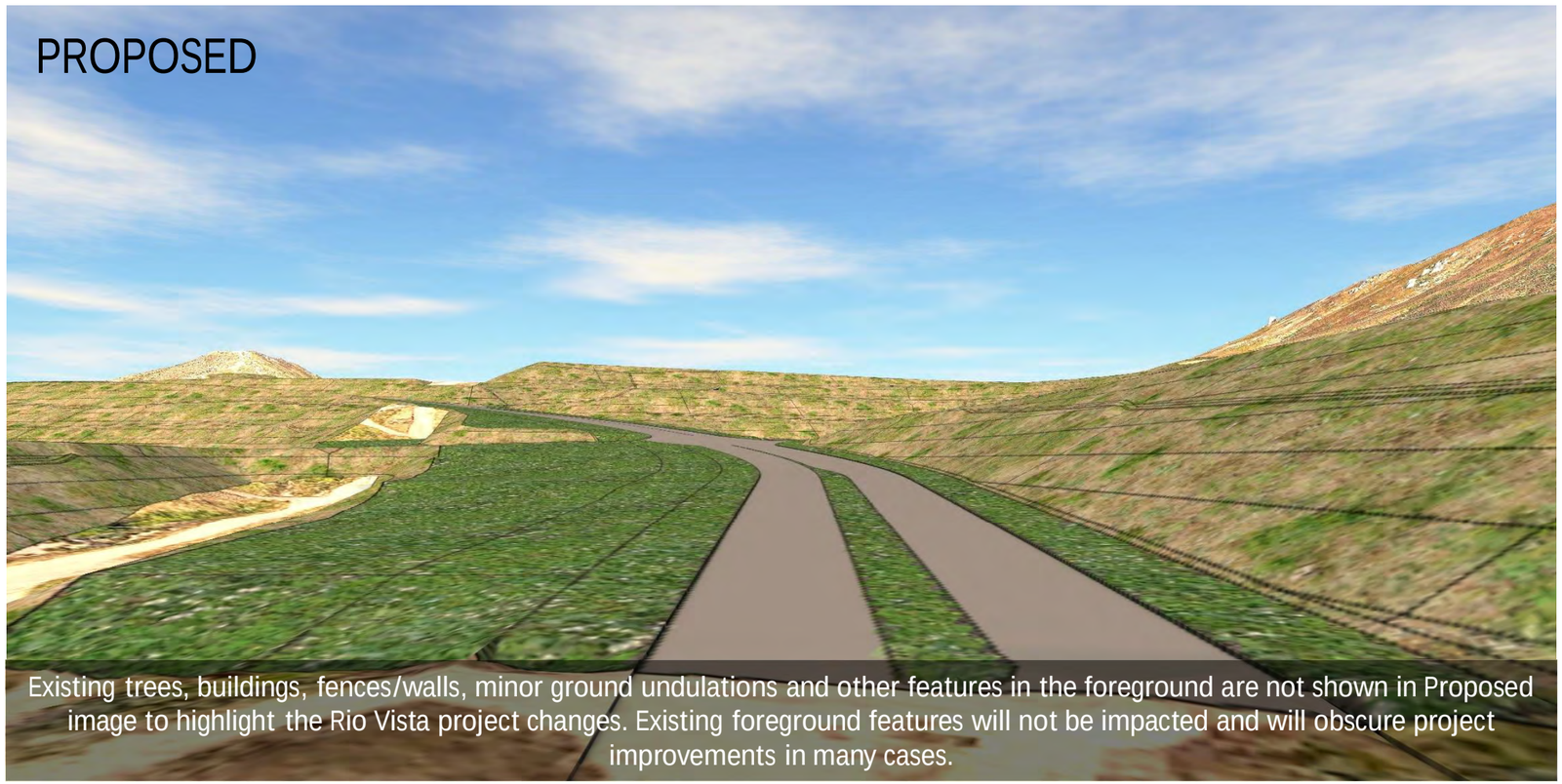
Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

VIEW SIM 7
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT





Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

EXISTING



PROPOSED



Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

VIEW SIM 8
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

VIEW SIM 9
EXISTING AND PROPOSED
RIO VISTA DEVELOPMENT

EXISTING



PROPOSED



Existing trees, buildings, fences/walls, minor ground undulations and other features in the foreground are not shown in Proposed image to highlight the Rio Vista project changes. Existing foreground features will not be impacted and will obscure project improvements in many cases.

Key Map



Prepared By:

HUNSAKER & ASSOCIATES IRVINE, INC.

February 27, 2023

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Appendix C:
Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Appendix C: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Health Risk Assessment Inputs and Results 533

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Rio Vista Industrial Trip Adjustment Methodology

To calculate the adjusted fleet mix for the industrial uses, industrial trips from the Traffic Impact Analysis from EPD Solutions, separated into the categories passenger cars, 2-4 axle trucks, and 5-axle trucks, were further separated into EMFAC vehicle categories proportionally using the CalEEMod fleet mix for Riverside County then converted into fraction for input into CalEEMod. Passenger cars were separated into LDA, LDT1, LDT2, and MDV categories; 2-4 axle trucks were separated into LHD1, LHD2, and MHDT; and 5-axle trucks were counted as HHDT trucks.

Rio Vista Specific Plan - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
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tblConstructionPhase	NumDays	15,500.00	2,035.00
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tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
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tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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tblLandUse	LotAcreage	15.92	80.30
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tblWoodstoves	NumberCatalytic	50.95	0.00
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	50.95	0.00
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tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.4070	4.0388	3.3306	7.4000e-003	1.6883	0.1708	1.8591	0.7480	0.1572	0.9051	0.0000	650.5144	650.5144	0.2042	5.2000e-004	655.7759
2025	5.4621	26.2509	54.9155	0.2486	22.2311	0.3304	22.5615	5.9626	0.3118	6.2744	0.0000	23,261.7780	23,261.7780	0.4777	1.8167	23,815.0973
2026	5.6420	27.8730	56.7574	0.2650	23.9431	0.3427	24.2857	6.4577	0.3238	6.7815	0.0000	24,801.4812	24,801.4812	0.4781	1.9387	25,391.1581
2027	5.3580	27.3605	54.0771	0.2585	23.9430	0.3367	24.2797	6.4576	0.3183	6.7759	0.0000	24,199.1714	24,199.1714	0.4578	1.8874	24,773.0582
2028	5.0838	26.8383	51.6480	0.2516	23.8512	0.3295	24.1807	6.4329	0.3116	6.7444	0.0000	23,559.8368	23,559.8368	0.4396	1.8330	24,117.0696
2029	4.8616	26.5716	49.9051	0.2472	23.9429	0.3250	24.2679	6.4576	0.3074	6.7650	0.0000	23,153.2550	23,153.2550	0.4272	1.7969	23,699.4243
2030	4.6295	25.6491	48.2578	0.2429	23.9429	0.2702	24.2130	6.4576	0.2571	6.7147	0.0000	22,743.4292	22,743.4292	0.3578	1.7576	23,276.1398
2031	4.4138	25.5062	47.2001	0.2387	23.9428	0.2602	24.2030	6.4576	0.2476	6.7052	0.0000	22,354.7428	22,354.7428	0.3484	1.7214	22,876.4260
2032	3.7773	22.5539	41.0845	0.2092	21.2850	0.2323	21.5173	5.7407	0.2215	5.9622	0.0000	19,593.4238	19,593.4238	0.3033	1.5031	20,048.9170
2033	26.3958	0.6767	4.8170	0.0160	2.1873	0.0261	2.2135	0.5808	0.0257	0.6065	0.0000	1,451.7328	1,451.7328	0.0252	0.0276	1,460.5784
Maximum	**26.3958**	**27.8730**	**56.7574**	**0.2650**	**23.9431**	**0.3427**	**24.2857**	**6.4577**	**0.3238**	**6.7815**	**0.0000**	**24,801.4812**	**24,801.4812**	**0.4781**	**1.9387**	**25,391.1581**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.4070	4.0388	3.3306	7.4000e-003	0.6755	0.1708	0.8463	0.2962	0.1572	0.4534	0.0000	650.5136	650.5136	0.2042	5.2000e-004	655.7751
2025	5.4621	26.2509	54.9155	0.2486	21.9899	0.3304	22.3203	5.9179	0.3118	6.2297	0.0000	23,261.7776	23,261.7776	0.4777	1.8167	23,815.0969
2026	5.6420	27.8729	56.7574	0.2650	23.9431	0.3427	24.2857	6.4577	0.3238	6.7815	0.0000	24,801.4809	24,801.4809	0.4781	1.9387	25,391.1578
2027	5.3580	27.3605	54.0771	0.2585	23.9430	0.3367	24.2797	6.4576	0.3183	6.7759	0.0000	24,199.1710	24,199.1710	0.4578	1.8874	24,773.0578
2028	5.0838	26.8383	51.6480	0.2516	23.8512	0.3295	24.1807	6.4329	0.3116	6.7444	0.0000	23,559.8365	23,559.8365	0.4396	1.8330	24,117.0693
2029	4.8616	26.5716	49.9051	0.2472	23.9429	0.3250	24.2679	6.4576	0.3074	6.7650	0.0000	23,153.2547	23,153.2547	0.4272	1.7969	23,699.4239
2030	4.6295	25.6491	48.2578	0.2429	23.9429	0.2702	24.2130	6.4576	0.2571	6.7147	0.0000	22,743.4288	22,743.4288	0.3578	1.7576	23,276.1394
2031	4.4138	25.5062	47.2001	0.2387	23.9428	0.2602	24.2030	6.4576	0.2476	6.7052	0.0000	22,354.7424	22,354.7424	0.3484	1.7214	22,876.4255
2032	3.7773	22.5539	41.0845	0.2092	21.2850	0.2323	21.5173	5.7407	0.2215	5.9622	0.0000	19,593.4233	19,593.4233	0.3033	1.5031	20,048.9166
2033	26.3958	0.6767	4.8170	0.0160	2.1873	0.0261	2.2135	0.5808	0.0257	0.6065	0.0000	1,451.7326	1,451.7326	0.0252	0.0276	1,460.5782
Maximum	**26.3958**	**27.8729**	**56.7574**	**0.2650**	**23.9431**	**0.3427**	**24.2857**	**6.4577**	**0.3238**	**6.7815**	**0.0000**	**24,801.4809**	**24,801.4809**	**0.4781**	**1.9387**	**25,391.1578**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.66**	**0.00**	**0.65**	**0.96**	**0.00**	**0.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.9728	0.9728
2	4-1-2024	6-30-2024	1.1212	1.1212
3	7-1-2024	9-30-2024	1.1731	1.1731
4	10-1-2024	12-31-2024	1.1730	1.1730
5	1-1-2025	3-31-2025	5.9644	5.9644
6	4-1-2025	6-30-2025	8.3999	8.3999
7	7-1-2025	9-30-2025	8.4922	8.4922
8	10-1-2025	12-31-2025	8.7662	8.7662
9	1-1-2026	3-31-2026	8.3608	8.3608
10	4-1-2026	6-30-2026	8.1799	8.1799
11	7-1-2026	9-30-2026	8.2698	8.2698
12	10-1-2026	12-31-2026	8.5466	8.5466
13	1-1-2027	3-31-2027	8.1644	8.1644
14	4-1-2027	6-30-2027	7.9793	7.9793
15	7-1-2027	9-30-2027	8.0670	8.0670
16	10-1-2027	12-31-2027	8.3458	8.3458
17	1-1-2028	3-31-2028	8.0867	8.0867
18	4-1-2028	6-30-2028	7.8091	7.8091
19	7-1-2028	9-30-2028	7.8949	7.8949
20	10-1-2028	12-31-2028	8.1756	8.1756
21	1-1-2029	3-31-2029	7.8464	7.8464
22	4-1-2029	6-30-2029	7.6539	7.6539
23	7-1-2029	9-30-2029	7.7380	7.7380
24	10-1-2029	12-31-2029	8.0207	8.0207
25	1-1-2030	3-31-2030	7.5609	7.5609
26	4-1-2030	6-30-2030	7.3635	7.3635
27	7-1-2030	9-30-2030	7.4444	7.4444
28	10-1-2030	12-31-2030	7.7289	7.7289

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

29	**1-1-2031**	**3-31-2031**	7.4720	7.4720
30	**4-1-2031**	**6-30-2031**	7.2691	7.2691
31	**7-1-2031**	**9-30-2031**	7.3490	7.3490
32	**10-1-2031**	**12-31-2031**	7.6381	7.6381
33	**1-1-2032**	**3-31-2032**	7.4427	7.4427
34	**4-1-2032**	**6-30-2032**	7.1545	7.1545
35	**7-1-2032**	**9-30-2032**	7.2331	7.2331
36	**10-1-2032**	**12-31-2032**	4.2229	4.2229
37	**1-1-2033**	**3-31-2033**	0.2862	0.2862
38	**4-1-2033**	**6-30-2033**	2.8454	2.8454
39	**7-1-2033**	**9-30-2033**	12.0501	12.0501
		Highest	12.0501	12.0501

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Energy	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	20,203.3408	20,203.3408	1.2412	0.2643	20,313.1412
Mobile	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985
Waste						0.0000	0.0000		0.0000	0.0000	1,739.7868	0.0000	1,739.7868	102.8185	0.0000	4,310.2482
Water						0.0000	0.0000		0.0000	0.0000	432.6499	4,182.1143	4,614.7642	44.7903	1.0921	6,059.9510
Total	**48.9663**	**29.8540**	**147.5988**	**0.4046**	**46.6657**	**0.8727**	**47.5384**	**12.4763**	**0.8567**	**13.3330**	**2,172.4367**	**58,261.7688**	**60,434.2055**	**150.2542**	**3.2347**	**65,154.5000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Energy	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	20,203.3408	20,203.3408	1.2412	0.2643	20,313.1412
Mobile	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985
Waste						0.0000	0.0000		0.0000	0.0000	1,739.7868	0.0000	1,739.7868	102.8185	0.0000	4,310.2482
Water						0.0000	0.0000		0.0000	0.0000	432.6499	4,182.1143	4,614.7642	44.7903	1.0921	6,059.9510
Total	**48.9663**	**29.8540**	**147.5988**	**0.4046**	**46.6657**	**0.8727**	**47.5384**	**12.4763**	**0.8567**	**13.3330**	**2,172.4367**	**58,261.7688**	**60,434.2055**	**150.2542**	**3.2347**	**65,154.5000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					0.7863	0.0000	0.7863	0.4041	0.0000	0.4041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1064	1.0870	0.7334	1.5200e-003		0.0492	0.0492		0.0452	0.0452	0.0000	133.8283	133.8283	0.0433	0.0000	134.9103
Total	**0.1064**	**1.0870**	**0.7334**	**1.5200e-003**	**0.7863**	**0.0492**	**0.8355**	**0.4041**	**0.0452**	**0.4493**	**0.0000**	**133.8283**	**133.8283**	**0.0433**	**0.0000**	**134.9103**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.1800e-003	1.5400e-003	0.0211	6.0000e-005	7.9100e-003	4.0000e-005	7.9500e-003	2.1000e-003	3.0000e-005	2.1300e-003	0.0000	5.8276	5.8276	1.4000e-004	1.5000e-004	5.8752
Total	**2.1800e-003**	**1.5400e-003**	**0.0211**	**6.0000e-005**	**7.9100e-003**	**4.0000e-005**	**7.9500e-003**	**2.1000e-003**	**3.0000e-005**	**2.1300e-003**	**0.0000**	**5.8276**	**5.8276**	**1.4000e-004**	**1.5000e-004**	**5.8752**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3067	0.0000	0.3067	0.1576	0.0000	0.1576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1064	1.0870	0.7334	1.5200e-003		0.0492	0.0492		0.0452	0.0452	0.0000	133.8281	133.8281	0.0433	0.0000	134.9102
Total	**0.1064**	**1.0870**	**0.7334**	**1.5200e-003**	**0.3067**	**0.0492**	**0.3558**	**0.1576**	**0.0452**	**0.2028**	**0.0000**	**133.8281**	**133.8281**	**0.0433**	**0.0000**	**134.9102**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.1800e-003	1.5400e-003	0.0211	6.0000e-005	7.9100e-003	4.0000e-005	7.9500e-003	2.1000e-003	3.0000e-005	2.1300e-003	0.0000	5.8276	5.8276	1.4000e-004	1.5000e-004	5.8752
Total	**2.1800e-003**	**1.5400e-003**	**0.0211**	**6.0000e-005**	**7.9100e-003**	**4.0000e-005**	**7.9500e-003**	**2.1000e-003**	**3.0000e-005**	**2.1300e-003**	**0.0000**	**5.8276**	**5.8276**	**1.4000e-004**	**1.5000e-004**	**5.8752**

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					0.8741	0.0000	0.8741	0.3364	0.0000	0.3364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2929	2.9463	2.5228	5.6500e-003		0.1215	0.1215		0.1118	0.1118	0.0000	496.1277	496.1277	0.1605	0.0000	500.1391
Total	**0.2929**	**2.9463**	**2.5228**	**5.6500e-003**	**0.8741**	**0.1215**	**0.9956**	**0.3364**	**0.1118**	**0.4482**	**0.0000**	**496.1277**	**496.1277**	**0.1605**	**0.0000**	**500.1391**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	3.8900e-003	0.0533	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3100e-003	8.0000e-005	5.4000e-003	0.0000	14.7309	14.7309	3.4000e-004	3.8000e-004	14.8513
Total	**5.5100e-003**	**3.8900e-003**	**0.0533**	**1.6000e-004**	**0.0200**	**9.0000e-005**	**0.0201**	**5.3100e-003**	**8.0000e-005**	**5.4000e-003**	**0.0000**	**14.7309**	**14.7309**	**3.4000e-004**	**3.8000e-004**	**14.8513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3409	0.0000	0.3409	0.1312	0.0000	0.1312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2929	2.9463	2.5228	5.6500e-003		0.1215	0.1215		0.1118	0.1118	0.0000	496.1271	496.1271	0.1605	0.0000	500.1385
Total	**0.2929**	**2.9463**	**2.5228**	**5.6500e-003**	**0.3409**	**0.1215**	**0.4624**	**0.1312**	**0.1118**	**0.2430**	**0.0000**	**496.1271**	**496.1271**	**0.1605**	**0.0000**	**500.1385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	3.8900e-003	0.0533	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3100e-003	8.0000e-005	5.4000e-003	0.0000	14.7309	14.7309	3.4000e-004	3.8000e-004	14.8513
Total	**5.5100e-003**	**3.8900e-003**	**0.0533**	**1.6000e-004**	**0.0200**	**9.0000e-005**	**0.0201**	**5.3100e-003**	**8.0000e-005**	**5.4000e-003**	**0.0000**	**14.7309**	**14.7309**	**3.4000e-004**	**3.8000e-004**	**14.8513**

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					0.3954	0.0000	0.3954	0.0733	0.0000	0.0733	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1890
Total	**0.0334**	**0.3213**	**0.3028**	**7.1000e-004**	**0.3954**	**0.0130**	**0.4084**	**0.0733**	**0.0120**	**0.0852**	**0.0000**	**62.6821**	**62.6821**	**0.0203**	**0.0000**	**63.1890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.4000e-004	6.2700e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.7985	1.7985	4.0000e-005	4.0000e-005	1.8126
Total	**6.5000e-004**	**4.4000e-004**	**6.2700e-003**	**2.0000e-005**	**2.5300e-003**	**1.0000e-005**	**2.5400e-003**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**0.0000**	**1.7985**	**1.7985**	**4.0000e-005**	**4.0000e-005**	**1.8126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1542	0.0000	0.1542	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1889
Total	**0.0334**	**0.3213**	**0.3028**	**7.1000e-004**	**0.1542**	**0.0130**	**0.1672**	**0.0286**	**0.0120**	**0.0405**	**0.0000**	**62.6821**	**62.6821**	**0.0203**	**0.0000**	**63.1889**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.4000e-004	6.2700e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.7985	1.7985	4.0000e-005	4.0000e-005	1.8126
Total	**6.5000e-004**	**4.4000e-004**	**6.2700e-003**	**2.0000e-005**	**2.5300e-003**	**1.0000e-005**	**2.5400e-003**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**0.0000**	**1.7985**	**1.7985**	**4.0000e-005**	**4.0000e-005**	**1.8126**

3.4 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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9842	275.9842	0.0649	0.0000	277.6060
Total	**0.1627**	**1.4839**	**1.9141**	**3.2100e-003**		**0.0628**	**0.0628**		**0.0591**	**0.0591**	**0.0000**	**275.9842**	**275.9842**	**0.0649**	**0.0000**	**277.6060**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6603	21.3295	8.3758	0.1060	3.9625	0.1777	4.1402	1.1432	0.1700	1.3132	0.0000	10,207.8180	10,207.8180	0.1146	1.5040	10,658.8760
Worker	4.6050	3.1157	44.3165	0.1387	17.8707	0.0769	17.9476	4.7454	0.0708	4.8162	0.0000	12,713.4952	12,713.4952	0.2780	0.3127	12,813.6137
Total	**5.2653**	**24.4452**	**52.6923**	**0.2447**	**21.8332**	**0.2546**	**22.0878**	**5.8886**	**0.2408**	**6.1294**	**0.0000**	**22,921.3132**	**22,921.3132**	**0.3925**	**1.8167**	**23,472.4897**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9838	275.9838	0.0649	0.0000	277.6057
Total	**0.1627**	**1.4839**	**1.9141**	**3.2100e-003**		**0.0628**	**0.0628**		**0.0591**	**0.0591**	**0.0000**	**275.9838**	**275.9838**	**0.0649**	**0.0000**	**277.6057**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6603	21.3295	8.3758	0.1060	3.9625	0.1777	4.1402	1.1432	0.1700	1.3132	0.0000	10,207.8180	10,207.8180	0.1146	1.5040	10,658.8760
Worker	4.6050	3.1157	44.3165	0.1387	17.8707	0.0769	17.9476	4.7454	0.0708	4.8162	0.0000	12,713.4952	12,713.4952	0.2780	0.3127	12,813.6137
Total	**5.2653**	**24.4452**	**52.6923**	**0.2447**	**21.8332**	**0.2546**	**22.0878**	**5.8886**	**0.2408**	**6.1294**	**0.0000**	**22,921.3132**	**22,921.3132**	**0.3925**	**1.8167**	**23,472.4897**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7154	23.1548	9.0983	0.1141	4.3454	0.1940	4.5394	1.2537	0.1856	1.4393	0.0000	10,990.6692	10,990.6692	0.1301	1.6162	11,475.5436
Worker	4.7481	3.0909	45.5600	0.1473	19.5977	0.0799	19.6776	5.2040	0.0735	5.2775	0.0000	13,508.1572	13,508.1572	0.2768	0.3225	13,611.1810
Total	**5.4635**	**26.2457**	**54.6583**	**0.2614**	**23.9431**	**0.2739**	**24.2169**	**6.4577**	**0.2591**	**6.7167**	**0.0000**	**24,498.8263**	**24,498.8263**	**0.4069**	**1.9387**	**25,086.7246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7154	23.1548	9.0983	0.1141	4.3454	0.1940	4.5394	1.2537	0.1856	1.4393	0.0000	10,990.6692	10,990.6692	0.1301	1.6162	11,475.5436
Worker	4.7481	3.0909	45.5600	0.1473	19.5977	0.0799	19.6776	5.2040	0.0735	5.2775	0.0000	13,508.1572	13,508.1572	0.2768	0.3225	13,611.1810
Total	**5.4635**	**26.2457**	**54.6583**	**0.2614**	**23.9431**	**0.2739**	**24.2169**	**6.4577**	**0.2591**	**6.7167**	**0.0000**	**24,498.8263**	**24,498.8263**	**0.4069**	**1.9387**	**25,086.7246**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7080	22.9177	9.0274	0.1119	4.3453	0.1929	4.5382	1.2537	0.1846	1.4382	0.0000	10,776.4764	10,776.4764	0.1341	1.5820	11,251.2625
Worker	4.4716	2.8155	42.9507	0.1431	19.5977	0.0749	19.6726	5.2040	0.0690	5.2729	0.0000	13,120.0402	13,120.0402	0.2526	0.3054	13,217.3622
Total	**5.1796**	**25.7333**	**51.9780**	**0.2550**	**23.9430**	**0.2679**	**24.2109**	**6.4576**	**0.2535**	**6.7112**	**0.0000**	**23,896.5165**	**23,896.5165**	**0.3867**	**1.8874**	**24,468.6247**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7080	22.9177	9.0274	0.1119	4.3453	0.1929	4.5382	1.2537	0.1846	1.4382	0.0000	10,776.4764	10,776.4764	0.1341	1.5820	11,251.2625
Worker	4.4716	2.8155	42.9507	0.1431	19.5977	0.0749	19.6726	5.2040	0.0690	5.2729	0.0000	13,120.0402	13,120.0402	0.2526	0.3054	13,217.3622
Total	**5.1796**	**25.7333**	**51.9780**	**0.2550**	**23.9430**	**0.2679**	**24.2109**	**6.4576**	**0.2535**	**6.7112**	**0.0000**	**23,896.5165**	**23,896.5165**	**0.3867**	**1.8874**	**24,468.6247**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6998	22.6419	8.9436	0.1093	4.3286	0.1913	4.5199	1.2489	0.1830	1.4319	0.0000	10,530.3176	10,530.3176	0.1378	1.5430	10,993.5747
Worker	4.2062	2.5753	40.6134	0.1388	19.5226	0.0696	19.5922	5.1840	0.0640	5.2481	0.0000	12,728.0239	12,728.0239	0.2310	0.2900	12,820.2279
Total	**4.9060**	**25.2172**	**49.5570**	**0.2481**	**23.8512**	**0.2609**	**24.1121**	**6.4329**	**0.2470**	**6.6799**	**0.0000**	**23,258.3416**	**23,258.3416**	**0.3687**	**1.8330**	**23,813.8026**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6998	22.6419	8.9436	0.1093	4.3286	0.1913	4.5199	1.2489	0.1830	1.4319	0.0000	10,530.3176	10,530.3176	0.1378	1.5430	10,993.5747
Worker	4.2062	2.5753	40.6134	0.1388	19.5226	0.0696	19.5922	5.1840	0.0640	5.2481	0.0000	12,728.0239	12,728.0239	0.2310	0.2900	12,820.2279
Total	**4.9060**	**25.2172**	**49.5570**	**0.2481**	**23.8512**	**0.2609**	**24.1121**	**6.4329**	**0.2470**	**6.6799**	**0.0000**	**23,258.3416**	**23,258.3416**	**0.3687**	**1.8330**	**23,813.8026**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6980	22.5571	8.9392	0.1077	4.3452	0.1911	4.5363	1.2536	0.1828	1.4364	0.0000	10,377.2131	10,377.2131	0.1424	1.5179	10,833.1000
Worker	3.9852	2.3872	38.8669	0.1360	19.5977	0.0651	19.6628	5.2040	0.0599	5.2639	0.0000	12,473.3871	12,473.3871	0.2136	0.2791	12,561.8907
Total	**4.6832**	**24.9443**	**47.8060**	**0.2437**	**23.9429**	**0.2562**	**24.1991**	**6.4576**	**0.2427**	**6.7003**	**0.0000**	**22,850.6002**	**22,850.6002**	**0.3561**	**1.7969**	**23,394.9908**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6980	22.5571	8.9392	0.1077	4.3452	0.1911	4.5363	1.2536	0.1828	1.4364	0.0000	10,377.2131	10,377.2131	0.1424	1.5179	10,833.1000
Worker	3.9852	2.3872	38.8669	0.1360	19.5977	0.0651	19.6628	5.2040	0.0599	5.2639	0.0000	12,473.3871	12,473.3871	0.2136	0.2791	12,561.8907
Total	**4.6832**	**24.9443**	**47.8060**	**0.2437**	**23.9429**	**0.2562**	**24.1991**	**6.4576**	**0.2427**	**6.7003**	**0.0000**	**22,850.6002**	**22,850.6002**	**0.3561**	**1.7969**	**23,394.9908**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6945	22.3959	8.9109	0.1057	4.3452	0.1901	4.5353	1.2536	0.1819	1.4355	0.0000	10,195.0787	10,195.0787	0.1464	1.4887	10,642.3805
Worker	3.7641	2.2177	37.2384	0.1331	19.5977	0.0607	19.6584	5.2040	0.0559	5.2599	0.0000	12,205.3169	12,205.3169	0.1977	0.2689	12,290.3816
Total	**4.4586**	**24.6136**	**46.1493**	**0.2388**	**23.9429**	**0.2508**	**24.1937**	**6.4576**	**0.2377**	**6.6953**	**0.0000**	**22,400.3956**	**22,400.3956**	**0.3440**	**1.7576**	**22,932.7621**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6945	22.3959	8.9109	0.1057	4.3452	0.1901	4.5353	1.2536	0.1819	1.4355	0.0000	10,195.0787	10,195.0787	0.1464	1.4887	10,642.3805
Worker	3.7641	2.2177	37.2384	0.1331	19.5977	0.0607	19.6584	5.2040	0.0559	5.2599	0.0000	12,205.3169	12,205.3169	0.1977	0.2689	12,290.3816
Total	**4.4586**	**24.6136**	**46.1493**	**0.2388**	**23.9429**	**0.2508**	**24.1937**	**6.4576**	**0.2377**	**6.6953**	**0.0000**	**22,400.3956**	**22,400.3956**	**0.3440**	**1.7576**	**22,932.7621**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6916	22.4012	8.9200	0.1039	4.3451	0.1833	4.5284	1.2536	0.1753	1.4289	0.0000	10,019.9441	10,019.9441	0.1501	1.4610	10,459.0637
Worker	3.5514	2.0696	36.1717	0.1308	19.5977	0.0576	19.6552	5.2040	0.0530	5.2569	0.0000	11,991.7651	11,991.7651	0.1845	0.2604	12,073.9846
Total	**4.2430**	**24.4708**	**45.0916**	**0.2347**	**23.9428**	**0.2408**	**24.1837**	**6.4576**	**0.2283**	**6.6859**	**0.0000**	**22,011.7092**	**22,011.7092**	**0.3346**	**1.7214**	**22,533.0483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6916	22.4012	8.9200	0.1039	4.3451	0.1833	4.5284	1.2536	0.1753	1.4289	0.0000	10,019.9441	10,019.9441	0.1501	1.4610	10,459.0637
Worker	3.5514	2.0696	36.1717	0.1308	19.5977	0.0576	19.6552	5.2040	0.0530	5.2569	0.0000	11,991.7651	11,991.7651	0.1845	0.2604	12,073.9846
Total	**4.2430**	**24.4708**	**45.0916**	**0.2347**	**23.9428**	**0.2408**	**24.1837**	**6.4576**	**0.2283**	**6.6859**	**0.0000**	**22,011.7092**	**22,011.7092**	**0.3346**	**1.7214**	**22,533.0483**

3.4 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	0.1519	0.9204	1.8742	3.5900e-003		0.0172	0.0172		0.0172	0.0172	0.0000	304.9188	304.9188	0.0122	0.0000	305.2246
Total	**0.1519**	**0.9204**	**1.8742**	**3.5900e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**304.9188**	**304.9188**	**0.0122**	**0.0000**	**305.2246**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6144	19.7989	7.9350	0.0910	3.8623	0.1623	4.0246	1.1143	0.1552	1.2695	0.0000	8,777.0781	8,777.0781	0.1365	1.2781	9,161.3545
Worker	2.9846	1.7275	31.0332	0.1142	17.4202	0.0479	17.4681	4.6257	0.0441	4.6698	0.0000	10,473.7907	10,473.7907	0.1529	0.2250	10,544.6493
Total	**3.5990**	**21.5264**	**38.9681**	**0.2052**	**21.2825**	**0.2102**	**21.4926**	**5.7401**	**0.1993**	**5.9394**	**0.0000**	**19,250.8688**	**19,250.8688**	**0.2893**	**1.5030**	**19,706.0038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1519	0.9204	1.8742	3.5900e-003		0.0172	0.0172		0.0172	0.0172	0.0000	304.9184	304.9184	0.0122	0.0000	305.2242
Total	**0.1519**	**0.9204**	**1.8742**	**3.5900e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**304.9184**	**304.9184**	**0.0122**	**0.0000**	**305.2242**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6144	19.7989	7.9350	0.0910	3.8623	0.1623	4.0246	1.1143	0.1552	1.2695	0.0000	8,777.0781	8,777.0781	0.1365	1.2781	9,161.3545
Worker	2.9846	1.7275	31.0332	0.1142	17.4202	0.0479	17.4681	4.6257	0.0441	4.6698	0.0000	10,473.7907	10,473.7907	0.1529	0.2250	10,544.6493
Total	**3.5990**	**21.5264**	**38.9681**	**0.2052**	**21.2825**	**0.2102**	**21.4926**	**5.7401**	**0.1993**	**5.9394**	**0.0000**	**19,250.8688**	**19,250.8688**	**0.2893**	**1.5030**	**19,706.0038**

3.5 Paving - 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	0.0208	0.1068	0.2377	4.2000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003	0.0000	36.1493	36.1493	1.6900e-003	0.0000	36.1916
Paving	5.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0261**	**0.1068**	**0.2377**	**4.2000e-004**		**4.9600e-003**	**4.9600e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**36.1493**	**36.1493**	**1.6900e-003**	**0.0000**	**36.1916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.2000e-004	2.5000e-004	4.4100e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.6000e-004	0.0000	1.4869	1.4869	2.0000e-005	3.0000e-005	1.4970
Total	**4.2000e-004**	**2.5000e-004**	**4.4100e-003**	**2.0000e-005**	**2.4700e-003**	**1.0000e-005**	**2.4800e-003**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**1.4869**	**1.4869**	**2.0000e-005**	**3.0000e-005**	**1.4970**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0208	0.1068	0.2377	4.2000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003	0.0000	36.1492	36.1492	1.6900e-003	0.0000	36.1916
Paving	5.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0261**	**0.1068**	**0.2377**	**4.2000e-004**		**4.9600e-003**	**4.9600e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**36.1492**	**36.1492**	**1.6900e-003**	**0.0000**	**36.1916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.2000e-004	2.5000e-004	4.4100e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.6000e-004	0.0000	1.4869	1.4869	2.0000e-005	3.0000e-005	1.4970
Total	**4.2000e-004**	**2.5000e-004**	**4.4100e-003**	**2.0000e-005**	**2.4700e-003**	**1.0000e-005**	**2.4800e-003**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**1.4869**	**1.4869**	**2.0000e-005**	**3.0000e-005**	**1.4970**

3.5 Paving - 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	0.0796	0.4094	0.9114	1.6100e-003		0.0190	0.0190		0.0190	0.0190	0.0000	138.5722	138.5722	6.5000e-003	0.0000	138.7346
Paving	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1000**	**0.4094**	**0.9114**	**1.6100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**138.5722**	**138.5722**	**6.5000e-003**	**0.0000**	**138.7346**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.5400e-003	8.9000e-004	0.0164	6.0000e-005	9.4800e-003	2.0000e-005	9.5000e-003	2.5200e-003	2.0000e-005	2.5400e-003	0.0000	5.6111	5.6111	8.0000e-005	1.2000e-004	5.6486
Total	**1.5400e-003**	**8.9000e-004**	**0.0164**	**6.0000e-005**	**9.4800e-003**	**2.0000e-005**	**9.5000e-003**	**2.5200e-003**	**2.0000e-005**	**2.5400e-003**	**0.0000**	**5.6111**	**5.6111**	**8.0000e-005**	**1.2000e-004**	**5.6486**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0796	0.4094	0.9114	1.6100e-003		0.0190	0.0190		0.0190	0.0190	0.0000	138.5720	138.5720	6.5000e-003	0.0000	138.7345
Paving	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1000**	**0.4094**	**0.9114**	**1.6100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**138.5720**	**138.5720**	**6.5000e-003**	**0.0000**	**138.7345**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.5400e-003	8.9000e-004	0.0164	6.0000e-005	9.4800e-003	2.0000e-005	9.5000e-003	2.5200e-003	2.0000e-005	2.5400e-003	0.0000	5.6111	5.6111	8.0000e-005	1.2000e-004	5.6486
Total	**1.5400e-003**	**8.9000e-004**	**0.0164**	**6.0000e-005**	**9.4800e-003**	**2.0000e-005**	**9.5000e-003**	**2.5200e-003**	**2.0000e-005**	**2.5400e-003**	**0.0000**	**5.6111**	**5.6111**	**8.0000e-005**	**1.2000e-004**	**5.6486**

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	25.9310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.0621	0.1303	2.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	18.5111	18.5111	7.5000e-004	0.0000	18.5298
Total	**25.9405**	**0.0621**	**0.1303**	**2.2000e-004**		**1.4700e-003**	**1.4700e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**18.5111**	**18.5111**	**7.5000e-004**	**0.0000**	**18.5298**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3538	0.2043	3.7589	0.0141	2.1778	5.6200e-003	2.1835	0.5783	5.1700e-003	0.5835	0.0000	1,289.0384	1,289.0384	0.0179	0.0275	1,297.6653
Total	**0.3538**	**0.2043**	**3.7589**	**0.0141**	**2.1778**	**5.6200e-003**	**2.1835**	**0.5783**	**5.1700e-003**	**0.5835**	**0.0000**	**1,289.0384**	**1,289.0384**	**0.0179**	**0.0275**	**1,297.6653**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	25.9310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.0621	0.1303	2.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	18.5111	18.5111	7.5000e-004	0.0000	18.5298
Total	**25.9405**	**0.0621**	**0.1303**	**2.2000e-004**		**1.4700e-003**	**1.4700e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**18.5111**	**18.5111**	**7.5000e-004**	**0.0000**	**18.5298**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3538	0.2043	3.7589	0.0141	2.1778	5.6200e-003	2.1835	0.5783	5.1700e-003	0.5835	0.0000	1,289.0384	1,289.0384	0.0179	0.0275	1,297.6653
Total	**0.3538**	**0.2043**	**3.7589**	**0.0141**	**2.1778**	**5.6200e-003**	**2.1835**	**0.5783**	**5.1700e-003**	**0.5835**	**0.0000**	**1,289.0384**	**1,289.0384**	**0.0179**	**0.0275**	**1,297.6653**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985
Unmitigated	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	60,889
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	25,488,810
Elementary School	1,745.26	0.00	0.00	4,296,319	4,296,319
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,953,622
General Heavy Industry	129.93	129.93	129.93	575,366	575,366
Office Park	17,788.56	5,858.08	2714.72	47,067,308	47,067,308
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,450,034
Single Family Housing	47.20	47.70	42.75	159,361	159,361
Total	38,946.75	25,360.52	21,550.17	123,051,708	123,051,708

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rio Vista Specific Plan - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13,089.6697	13,089.6697	1.1048	0.1339	13,157.1971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13,089.6697	13,089.6697	1.1048	0.1339	13,157.1971
NaturalGas Mitigated	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	7,113.6711	7,113.6711	0.1364	0.1304	7,155.9441
NaturalGas Unmitigated	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	7,113.6711	7,113.6711	0.1364	0.1304	7,155.9441

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	1.46554e+007	0.0790	0.6753	0.2874	4.3100e-003		0.0546	0.0546		0.0546	0.0546	0.0000	782.0696	782.0696	0.0150	0.0143	786.7171
Elementary School	5.07239e+006	0.0274	0.2487	0.2089	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.6819	270.6819	5.1900e-003	4.9600e-003	272.2905
General Heavy Industry	1.97213e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2404	105.2404	2.0200e-003	1.9300e-003	105.8658
General Heavy Industry	8.21036e+007	0.4427	4.0247	3.3807	0.0242		0.3059	0.3059		0.3059	0.3059	0.0000	4,381.3601	4,381.3601	0.0840	0.0803	4,407.3963
Office Park	1.03231e+007	0.0557	0.5060	0.4251	3.0400e-003		0.0385	0.0385		0.0385	0.0385	0.0000	550.8789	550.8789	0.0106	0.0101	554.1525
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	1.90371e+007	0.1027	0.8772	0.3733	5.6000e-003		0.0709	0.0709		0.0709	0.0709	0.0000	1,015.8927	1,015.8927	0.0195	0.0186	1,021.9297
Single Family Housing	141435	7.6000e-004	6.5200e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5475	7.5475	1.4000e-004	1.4000e-004	7.5924
Total		**0.7188**	**6.4351**	**4.7593**	**0.0392**		**0.4966**	**0.4966**		**0.4966**	**0.4966**	**0.0000**	**7,113.6711**	**7,113.6711**	**0.1364**	**0.1304**	**7,155.9441**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	1.46554e+007	0.0790	0.6753	0.2874	4.3100e-003		0.0546	0.0546		0.0546	0.0546	0.0000	782.0696	782.0696	0.0150	0.0143	786.7171
Elementary School	5.07239e+006	0.0274	0.2487	0.2089	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.6819	270.6819	5.1900e-003	4.9600e-003	272.2905
General Heavy Industry	1.97213e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2404	105.2404	2.0200e-003	1.9300e-003	105.8658
General Heavy Industry	8.21036e+007	0.4427	4.0247	3.3807	0.0242		0.3059	0.3059		0.3059	0.3059	0.0000	4,381.3601	4,381.3601	0.0840	0.0803	4,407.3963
Office Park	1.03231e+007	0.0557	0.5060	0.4251	3.0400e-003		0.0385	0.0385		0.0385	0.0385	0.0000	550.8789	550.8789	0.0106	0.0101	554.1525
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	1.90371e+007	0.1027	0.8772	0.3733	5.6000e-003		0.0709	0.0709		0.0709	0.0709	0.0000	1,015.8927	1,015.8927	0.0195	0.0186	1,021.9297
Single Family Housing	141435	7.6000e-004	6.5200e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5475	7.5475	1.4000e-004	1.4000e-004	7.5924
Total		**0.7188**	**6.4351**	**4.7593**	**0.0392**		**0.4966**	**0.4966**		**0.4966**	**0.4966**	**0.0000**	**7,113.6711**	**7,113.6711**	**0.1364**	**0.1304**	**7,155.9441**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.29984e+006	762.5581	0.0644	7.8000e-003	766.4920
Elementary School	4.09177e+006	725.6563	0.0613	7.4200e-003	729.3998
General Heavy Industry	2.51923e+007	4,467.7450	0.3771	0.0457	4,490.7934
General Heavy Industry	605120	107.3153	9.0600e-003	1.1000e-003	107.8690
Office Park	3.42198e+007	6,068.7220	0.5122	0.0621	6,100.0295
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39823.3	7.0625	6.0000e-004	7.0000e-005	7.0989
Single Family Housing	5.36022e+006	950.6105	0.0802	9.7300e-003	955.5145
Total		**13,089.6697**	**1.1048**	**0.1339**	**13,157.1971**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.29984e+006	762.5581	0.0644	7.8000e-003	766.4920
Elementary School	4.09177e+006	725.6563	0.0613	7.4200e-003	729.3998
General Heavy Industry	2.51923e+007	4,467.7450	0.3771	0.0457	4,490.7934
General Heavy Industry	605120	107.3153	9.0600e-003	1.1000e-003	107.8690
Office Park	3.42198e+007	6,068.7220	0.5122	0.0621	6,100.0295
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39823.3	7.0625	6.0000e-004	7.0000e-005	7.0989
Single Family Housing	5.36022e+006	950.6105	0.0802	9.7300e-003	955.5145
Total		**13,089.6697**	**1.1048**	**0.1339**	**13,157.1971**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Unmitigated	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610

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	2.5931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.0322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5306	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Total	**37.1558**	**0.2021**	**17.5472**	**9.3000e-004**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**28.7684**	**28.7684**	**0.0277**	**0.0000**	**29.4610**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.5931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.0322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5306	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Total	**37.1558**	**0.2021**	**17.5472**	**9.3000e-004**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**28.7684**	**28.7684**	**0.0277**	**0.0000**	**29.4610**

7.0 Water Detail

7.1 Mitigation Measures Water

Rio Vista Specific Plan - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,614.7642	44.7903	1.0921	6,059.9510
Unmitigated	4,614.7642	44.7903	1.0921	6,059.9510

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 21.9233	43.1956	3.6500e-003	4.4000e-004	43.4184
Condo/Townhouse High Rise	66.392 / 41.8558	256.8453	2.1833	0.0535	327.3688
Elementary School	16.9255 / 43.5227	130.2075	0.5621	0.0143	148.5202
General Heavy Industry	601.377 / 0	1,579.4993	19.7131	0.4769	2,214.4455
Office Park	634.865 / 389.111	2,434.1223	20.8755	0.5113	3,108.3807
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	44.1744 / 27.8491	170.8942	1.4527	0.0356	217.8175
Total		**4,614.7642**	**44.7903**	**1.0920**	**6,059.9510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 21.9233	43.1956	3.6500e-003	4.4000e-004	43.4184
Condo/Townhouse High Rise	66.392 / 41.8558	256.8453	2.1833	0.0535	327.3688
Elementary School	16.9255 / 43.5227	130.2075	0.5621	0.0143	148.5202
General Heavy Industry	601.377 / 0	1,579.4993	19.7131	0.4769	2,214.4455
Office Park	634.865 / 389.111	2,434.1223	20.8755	0.5113	3,108.3807
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	44.1744 / 27.8491	170.8942	1.4527	0.0356	217.8175
Total		**4,614.7642**	**44.7903**	**1.0920**	**6,059.9510**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Rio Vista Specific Plan - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,739.7868	102.8185	0.0000	4,310.2482
Unmitigated	1,739.7868	102.8185	0.0000	4,310.2482

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.58	0.3207	0.0190	0.0000	0.7946
Condo/Townhouse High Rise	468.74	95.1500	5.6232	0.0000	235.7301
Elementary School	758.81	154.0316	9.1030	0.0000	381.6067
General Heavy Industry	3224.68	654.5809	38.6846	0.0000	1,621.6965
Office Park	3321.96	674.3279	39.8516	0.0000	1,670.6187
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	794.99	161.3758	9.5370	0.0000	399.8017
Total		**1,739.7868**	**102.8185**	**0.0000**	**4,310.2482**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.58	0.3207	0.0190	0.0000	0.7946
Condo/Townhouse High Rise	468.74	95.1500	5.6232	0.0000	235.7301
Elementary School	758.81	154.0316	9.1030	0.0000	381.6067
General Heavy Industry	3224.68	654.5809	38.6846	0.0000	1,621.6965
Office Park	3321.96	674.3279	39.8516	0.0000	1,670.6187
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	794.99	161.3758	9.5370	0.0000	399.8017
Total		**1,739.7868**	**102.8185**	**0.0000**	**4,310.2482**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	600.00	80.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12
tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	1.62	6.40
tblLandUse	LotAcreage	218.51	117.70
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	3.2862	32.4172	28.4068	0.0640	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	363.2268	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**363.2268**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2862	32.4172	28.4068	0.0640	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	363.2268	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**363.2268**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247
Total	**290.0542**	**168.2885**	**1,020.8716**	**2.5846**	**292.9723**	**5.1829**	**298.1553**	**78.2088**	**5.0856**	**83.2945**	**0.0000**	**284,804.9396**	**284,804.9396**	**10.4204**	**13.0561**	**288,956.1719**

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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247
Total	**290.0542**	**168.2885**	**1,020.8716**	**2.5846**	**292.9723**	**5.1829**	**298.1553**	**78.2088**	**5.0856**	**83.2945**	**0.0000**	**284,804.9396**	**284,804.9396**	**10.4204**	**13.0561**	**288,956.1719**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	357.6692					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	**357.7999**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	357.6692					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	**357.7999**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247
Unmitigated	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	60,889
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	25,488,810
Elementary School	1,745.26	0.00	0.00	4,296,319	4,296,319
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,953,622
General Heavy Industry	129.93	129.93	129.93	575,366	575,366
Office Park	17,788.56	5,858.08	2714.72	47,067,308	47,067,308
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,450,034
Single Family Housing	47.20	47.70	42.75	159,361	159,361
Total	38,946.75	25,360.52	21,550.17	123,051,708	123,051,708

4.3 Trip Type Information

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

Rio Vista Specific Plan - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	600.00	80.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12
tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	1.62	6.40
tblLandUse	LotAcreage	218.51	117.70
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	3.2821	32.4186	28.2785	0.0638	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	363.0167	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**363.0167**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2821	32.4186	28.2785	0.0638	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	363.0167	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**363.0167**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782
Total	**277.5295**	**176.8008**	**924.4133**	**2.4261**	**292.9723**	**5.1846**	**298.1570**	**78.2088**	**5.0873**	**83.2961**	**0.0000**	**268,773.3927**	**268,773.3927**	**10.5863**	**13.2540**	**272,987.7255**

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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782
Total	**277.5295**	**176.8008**	**924.4133**	**2.4261**	**292.9723**	**5.1846**	**298.1570**	**78.2088**	**5.0873**	**83.2961**	**0.0000**	**268,773.3927**	**268,773.3927**	**10.5863**	**13.2540**	**272,987.7255**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	357.6692					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	**357.7999**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	357.6692					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	**357.7999**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782
Unmitigated	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	60,889
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	25,488,810
Elementary School	1,745.26	0.00	0.00	4,296,319	4,296,319
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,953,622
General Heavy Industry	129.93	129.93	129.93	575,366	575,366
Office Park	17,788.56	5,858.08	2714.72	47,067,308	47,067,308
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,450,034
Single Family Housing	47.20	47.70	42.75	159,361	159,361
Total	38,946.75	25,360.52	21,550.17	123,051,708	123,051,708

4.3 Trip Type Information

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

Rio Vista Specific Plan - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan - Mitigated

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - MM AIR-1b

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - MM AIR-1b

Energy Mitigation -

Water Mitigation -

Waste Mitigation - AB-341

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	10
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	600.00	80.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00
tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	218.51	117.70
tblLandUse	LotAcreage	1.62	6.40
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00
tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.4070	4.0388	3.3306	7.4000e-003	1.6883	0.1708	1.8591	0.7480	0.1572	0.9051	0.0000	650.5144	650.5144	0.2042	5.2000e-004	655.7759
2025	5.4621	26.2509	54.9155	0.2486	22.2311	0.3304	22.5615	5.9626	0.3118	6.2744	0.0000	23,261.7780	23,261.7780	0.4777	1.8167	23,815.0973
2026	5.6420	27.8730	56.7574	0.2650	23.9431	0.3427	24.2857	6.4577	0.3238	6.7815	0.0000	24,801.4812	24,801.4812	0.4781	1.9387	25,391.1581
2027	5.3580	27.3605	54.0771	0.2585	23.9430	0.3367	24.2797	6.4576	0.3183	6.7759	0.0000	24,199.1714	24,199.1714	0.4578	1.8874	24,773.0582
2028	5.0838	26.8383	51.6480	0.2516	23.8512	0.3295	24.1807	6.4329	0.3116	6.7444	0.0000	23,559.8368	23,559.8368	0.4396	1.8330	24,117.0696
2029	4.8616	26.5716	49.9051	0.2472	23.9429	0.3250	24.2679	6.4576	0.3074	6.7650	0.0000	23,153.2550	23,153.2550	0.4272	1.7969	23,699.4243
2030	4.6295	25.6491	48.2578	0.2429	23.9429	0.2702	24.2130	6.4576	0.2571	6.7147	0.0000	22,743.4292	22,743.4292	0.3578	1.7576	23,276.1398
2031	4.4138	25.5062	47.2001	0.2387	23.9428	0.2602	24.2030	6.4576	0.2476	6.7052	0.0000	22,354.7428	22,354.7428	0.3484	1.7214	22,876.4260
2032	3.7773	22.5539	41.0845	0.2092	21.2850	0.2323	21.5173	5.7407	0.2215	5.9622	0.0000	19,593.4238	19,593.4238	0.3033	1.5031	20,048.9170
2033	5.3243	0.6767	4.8170	0.0160	2.1873	0.0261	2.2135	0.5808	0.0257	0.6065	0.0000	1,451.7328	1,451.7328	0.0252	0.0276	1,460.5784
Maximum	**5.6420**	**27.8730**	**56.7574**	**0.2650**	**23.9431**	**0.3427**	**24.2857**	**6.4577**	**0.3238**	**6.7815**	**0.0000**	**24,801.4812**	**24,801.4812**	**0.4781**	**1.9387**	**25,391.1581**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.4070	4.0388	3.3306	7.4000e-003	0.6755	0.1708	0.8463	0.2962	0.1572	0.4534	0.0000	650.5136	650.5136	0.2042	5.2000e-004	655.7751
2025	5.4621	26.2509	54.9155	0.2486	21.9899	0.3304	22.3203	5.9179	0.3118	6.2297	0.0000	23,261.7776	23,261.7776	0.4777	1.8167	23,815.0969
2026	5.6420	27.8729	56.7574	0.2650	23.9431	0.3427	24.2857	6.4577	0.3238	6.7815	0.0000	24,801.4809	24,801.4809	0.4781	1.9387	25,391.1578
2027	5.3580	27.3605	54.0771	0.2585	23.9430	0.3367	24.2797	6.4576	0.3183	6.7759	0.0000	24,199.1710	24,199.1710	0.4578	1.8874	24,773.0578
2028	5.0838	26.8383	51.6480	0.2516	23.8512	0.3295	24.1807	6.4329	0.3116	6.7444	0.0000	23,559.8365	23,559.8365	0.4396	1.8330	24,117.0693
2029	4.8616	26.5716	49.9051	0.2472	23.9429	0.3250	24.2679	6.4576	0.3074	6.7650	0.0000	23,153.2547	23,153.2547	0.4272	1.7969	23,699.4239
2030	4.6295	25.6491	48.2578	0.2429	23.9429	0.2702	24.2130	6.4576	0.2571	6.7147	0.0000	22,743.4288	22,743.4288	0.3578	1.7576	23,276.1394
2031	4.4138	25.5062	47.2001	0.2387	23.9428	0.2602	24.2030	6.4576	0.2476	6.7052	0.0000	22,354.7424	22,354.7424	0.3484	1.7214	22,876.4255
2032	3.7773	22.5539	41.0845	0.2092	21.2850	0.2323	21.5173	5.7407	0.2215	5.9622	0.0000	19,593.4233	19,593.4233	0.3033	1.5031	20,048.9166
2033	5.3243	0.6767	4.8170	0.0160	2.1873	0.0261	2.2135	0.5808	0.0257	0.6065	0.0000	1,451.7326	1,451.7326	0.0252	0.0276	1,460.5782
Maximum	**5.6420**	**27.8729**	**56.7574**	**0.2650**	**23.9431**	**0.3427**	**24.2857**	**6.4577**	**0.3238**	**6.7815**	**0.0000**	**24,801.4809**	**24,801.4809**	**0.4781**	**1.9387**	**25,391.1578**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.66**	**0.00**	**0.65**	**0.96**	**0.00**	**0.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.9728	0.9728
2	4-1-2024	6-30-2024	1.1212	1.1212
3	7-1-2024	9-30-2024	1.1731	1.1731
4	10-1-2024	12-31-2024	1.1730	1.1730
5	1-1-2025	3-31-2025	5.9644	5.9644
6	4-1-2025	6-30-2025	8.3999	8.3999
7	7-1-2025	9-30-2025	8.4922	8.4922
8	10-1-2025	12-31-2025	8.7662	8.7662
9	1-1-2026	3-31-2026	8.3608	8.3608
10	4-1-2026	6-30-2026	8.1799	8.1799
11	7-1-2026	9-30-2026	8.2698	8.2698
12	10-1-2026	12-31-2026	8.5466	8.5466
13	1-1-2027	3-31-2027	8.1644	8.1644
14	4-1-2027	6-30-2027	7.9793	7.9793
15	7-1-2027	9-30-2027	8.0670	8.0670
16	10-1-2027	12-31-2027	8.3458	8.3458
17	1-1-2028	3-31-2028	8.0867	8.0867
18	4-1-2028	6-30-2028	7.8091	7.8091
19	7-1-2028	9-30-2028	7.8949	7.8949
20	10-1-2028	12-31-2028	8.1756	8.1756
21	1-1-2029	3-31-2029	7.8464	7.8464
22	4-1-2029	6-30-2029	7.6539	7.6539
23	7-1-2029	9-30-2029	7.7380	7.7380
24	10-1-2029	12-31-2029	8.0207	8.0207
25	1-1-2030	3-31-2030	7.5609	7.5609
26	4-1-2030	6-30-2030	7.3635	7.3635
27	7-1-2030	9-30-2030	7.4444	7.4444
28	10-1-2030	12-31-2030	7.7289	7.7289

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

29	**1-1-2031**	**3-31-2031**	7.4720	7.4720
30	**4-1-2031**	**6-30-2031**	7.2691	7.2691
31	**7-1-2031**	**9-30-2031**	7.3490	7.3490
32	**10-1-2031**	**12-31-2031**	7.6381	7.6381
33	**1-1-2032**	**3-31-2032**	7.4427	7.4427
34	**4-1-2032**	**6-30-2032**	7.1545	7.1545
35	**7-1-2032**	**9-30-2032**	7.2331	7.2331
36	**10-1-2032**	**12-31-2032**	4.2229	4.2229
37	**1-1-2033**	**3-31-2033**	0.2862	0.2862
38	**4-1-2033**	**6-30-2033**	0.7693	0.7693
39	**7-1-2033**	**9-30-2033**	2.5005	2.5005
		Highest	8.7662	8.7662

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Energy	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	20,203.3408	20,203.3408	1.2412	0.2643	20,313.1412
Mobile	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985
Waste						0.0000	0.0000		0.0000	0.0000	1,739.7868	0.0000	1,739.7868	102.8185	0.0000	4,310.2482
Water						0.0000	0.0000		0.0000	0.0000	432.6499	4,182.1143	4,614.7642	44.7903	1.0921	6,059.9510
Total	**48.9663**	**29.8540**	**147.5988**	**0.4046**	**46.6657**	**0.8727**	**47.5384**	**12.4763**	**0.8567**	**13.3330**	**2,172.4367**	**58,261.7688**	**60,434.2055**	**150.2542**	**3.2347**	**65,154.5000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	35.0487	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Energy	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	20,163.9427	20,163.9427	1.2378	0.2639	20,273.5399
Mobile	10.9784	22.8731	123.3129	0.3574	45.7324	0.2734	46.0058	12.2268	0.2577	12.4845	0.0000	33,190.0647	33,190.0647	1.3564	1.8467	33,774.2747
Waste						0.0000	0.0000		0.0000	0.0000	434.9467	0.0000	434.9467	25.7046	0.0000	1,077.5621
Water						0.0000	0.0000		0.0000	0.0000	432.6499	4,119.1039	4,551.7538	44.7850	1.0914	5,996.6156
Total	**46.7459**	**29.5102**	**145.6194**	**0.3975**	**45.7324**	**0.8674**	**46.5998**	**12.2268**	**0.8517**	**13.0785**	**867.5966**	**57,501.8797**	**58,369.4763**	**73.1115**	**3.2020**	**61,151.4532**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.53**	**1.15**	**1.34**	**1.75**	**2.00**	**0.60**	**1.97**	**2.00**	**0.58**	**1.91**	**60.06**	**1.30**	**3.42**	**51.34**	**1.01**	**6.14**

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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					0.7863	0.0000	0.7863	0.4041	0.0000	0.4041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1064	1.0870	0.7334	1.5200e-003		0.0492	0.0492		0.0452	0.0452	0.0000	133.8283	133.8283	0.0433	0.0000	134.9103
Total	**0.1064**	**1.0870**	**0.7334**	**1.5200e-003**	**0.7863**	**0.0492**	**0.8355**	**0.4041**	**0.0452**	**0.4493**	**0.0000**	**133.8283**	**133.8283**	**0.0433**	**0.0000**	**134.9103**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.1800e-003	1.5400e-003	0.0211	6.0000e-005	7.9100e-003	4.0000e-005	7.9500e-003	2.1000e-003	3.0000e-005	2.1300e-003	0.0000	5.8276	5.8276	1.4000e-004	1.5000e-004	5.8752
Total	**2.1800e-003**	**1.5400e-003**	**0.0211**	**6.0000e-005**	**7.9100e-003**	**4.0000e-005**	**7.9500e-003**	**2.1000e-003**	**3.0000e-005**	**2.1300e-003**	**0.0000**	**5.8276**	**5.8276**	**1.4000e-004**	**1.5000e-004**	**5.8752**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3067	0.0000	0.3067	0.1576	0.0000	0.1576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1064	1.0870	0.7334	1.5200e-003		0.0492	0.0492		0.0452	0.0452	0.0000	133.8281	133.8281	0.0433	0.0000	134.9102
Total	**0.1064**	**1.0870**	**0.7334**	**1.5200e-003**	**0.3067**	**0.0492**	**0.3558**	**0.1576**	**0.0452**	**0.2028**	**0.0000**	**133.8281**	**133.8281**	**0.0433**	**0.0000**	**134.9102**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.1800e-003	1.5400e-003	0.0211	6.0000e-005	7.9100e-003	4.0000e-005	7.9500e-003	2.1000e-003	3.0000e-005	2.1300e-003	0.0000	5.8276	5.8276	1.4000e-004	1.5000e-004	5.8752
Total	**2.1800e-003**	**1.5400e-003**	**0.0211**	**6.0000e-005**	**7.9100e-003**	**4.0000e-005**	**7.9500e-003**	**2.1000e-003**	**3.0000e-005**	**2.1300e-003**	**0.0000**	**5.8276**	**5.8276**	**1.4000e-004**	**1.5000e-004**	**5.8752**

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					0.8741	0.0000	0.8741	0.3364	0.0000	0.3364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2929	2.9463	2.5228	5.6500e-003		0.1215	0.1215		0.1118	0.1118	0.0000	496.1277	496.1277	0.1605	0.0000	500.1391
Total	**0.2929**	**2.9463**	**2.5228**	**5.6500e-003**	**0.8741**	**0.1215**	**0.9956**	**0.3364**	**0.1118**	**0.4482**	**0.0000**	**496.1277**	**496.1277**	**0.1605**	**0.0000**	**500.1391**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	3.8900e-003	0.0533	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3100e-003	8.0000e-005	5.4000e-003	0.0000	14.7309	14.7309	3.4000e-004	3.8000e-004	14.8513
Total	**5.5100e-003**	**3.8900e-003**	**0.0533**	**1.6000e-004**	**0.0200**	**9.0000e-005**	**0.0201**	**5.3100e-003**	**8.0000e-005**	**5.4000e-003**	**0.0000**	**14.7309**	**14.7309**	**3.4000e-004**	**3.8000e-004**	**14.8513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3409	0.0000	0.3409	0.1312	0.0000	0.1312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2929	2.9463	2.5228	5.6500e-003		0.1215	0.1215		0.1118	0.1118	0.0000	496.1271	496.1271	0.1605	0.0000	500.1385
Total	**0.2929**	**2.9463**	**2.5228**	**5.6500e-003**	**0.3409**	**0.1215**	**0.4624**	**0.1312**	**0.1118**	**0.2430**	**0.0000**	**496.1271**	**496.1271**	**0.1605**	**0.0000**	**500.1385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	3.8900e-003	0.0533	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3100e-003	8.0000e-005	5.4000e-003	0.0000	14.7309	14.7309	3.4000e-004	3.8000e-004	14.8513
Total	**5.5100e-003**	**3.8900e-003**	**0.0533**	**1.6000e-004**	**0.0200**	**9.0000e-005**	**0.0201**	**5.3100e-003**	**8.0000e-005**	**5.4000e-003**	**0.0000**	**14.7309**	**14.7309**	**3.4000e-004**	**3.8000e-004**	**14.8513**

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					0.3954	0.0000	0.3954	0.0733	0.0000	0.0733	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1890
Total	**0.0334**	**0.3213**	**0.3028**	**7.1000e-004**	**0.3954**	**0.0130**	**0.4084**	**0.0733**	**0.0120**	**0.0852**	**0.0000**	**62.6821**	**62.6821**	**0.0203**	**0.0000**	**63.1890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.4000e-004	6.2700e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.7985	1.7985	4.0000e-005	4.0000e-005	1.8126
Total	**6.5000e-004**	**4.4000e-004**	**6.2700e-003**	**2.0000e-005**	**2.5300e-003**	**1.0000e-005**	**2.5400e-003**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**0.0000**	**1.7985**	**1.7985**	**4.0000e-005**	**4.0000e-005**	**1.8126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1542	0.0000	0.1542	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1889
Total	**0.0334**	**0.3213**	**0.3028**	**7.1000e-004**	**0.1542**	**0.0130**	**0.1672**	**0.0286**	**0.0120**	**0.0405**	**0.0000**	**62.6821**	**62.6821**	**0.0203**	**0.0000**	**63.1889**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.4000e-004	6.2700e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.7985	1.7985	4.0000e-005	4.0000e-005	1.8126
Total	**6.5000e-004**	**4.4000e-004**	**6.2700e-003**	**2.0000e-005**	**2.5300e-003**	**1.0000e-005**	**2.5400e-003**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**0.0000**	**1.7985**	**1.7985**	**4.0000e-005**	**4.0000e-005**	**1.8126**

3.4 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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9842	275.9842	0.0649	0.0000	277.6060
Total	**0.1627**	**1.4839**	**1.9141**	**3.2100e-003**		**0.0628**	**0.0628**		**0.0591**	**0.0591**	**0.0000**	**275.9842**	**275.9842**	**0.0649**	**0.0000**	**277.6060**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6603	21.3295	8.3758	0.1060	3.9625	0.1777	4.1402	1.1432	0.1700	1.3132	0.0000	10,207.8180	10,207.8180	0.1146	1.5040	10,658.8760
Worker	4.6050	3.1157	44.3165	0.1387	17.8707	0.0769	17.9476	4.7454	0.0708	4.8162	0.0000	12,713.4952	12,713.4952	0.2780	0.3127	12,813.6137
Total	**5.2653**	**24.4452**	**52.6923**	**0.2447**	**21.8332**	**0.2546**	**22.0878**	**5.8886**	**0.2408**	**6.1294**	**0.0000**	**22,921.3132**	**22,921.3132**	**0.3925**	**1.8167**	**23,472.4897**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9838	275.9838	0.0649	0.0000	277.6057
Total	**0.1627**	**1.4839**	**1.9141**	**3.2100e-003**		**0.0628**	**0.0628**		**0.0591**	**0.0591**	**0.0000**	**275.9838**	**275.9838**	**0.0649**	**0.0000**	**277.6057**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6603	21.3295	8.3758	0.1060	3.9625	0.1777	4.1402	1.1432	0.1700	1.3132	0.0000	10,207.8180	10,207.8180	0.1146	1.5040	10,658.8760
Worker	4.6050	3.1157	44.3165	0.1387	17.8707	0.0769	17.9476	4.7454	0.0708	4.8162	0.0000	12,713.4952	12,713.4952	0.2780	0.3127	12,813.6137
Total	**5.2653**	**24.4452**	**52.6923**	**0.2447**	**21.8332**	**0.2546**	**22.0878**	**5.8886**	**0.2408**	**6.1294**	**0.0000**	**22,921.3132**	**22,921.3132**	**0.3925**	**1.8167**	**23,472.4897**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7154	23.1548	9.0983	0.1141	4.3454	0.1940	4.5394	1.2537	0.1856	1.4393	0.0000	10,990.6692	10,990.6692	0.1301	1.6162	11,475.5436
Worker	4.7481	3.0909	45.5600	0.1473	19.5977	0.0799	19.6776	5.2040	0.0735	5.2775	0.0000	13,508.1572	13,508.1572	0.2768	0.3225	13,611.1810
Total	**5.4635**	**26.2457**	**54.6583**	**0.2614**	**23.9431**	**0.2739**	**24.2169**	**6.4577**	**0.2591**	**6.7167**	**0.0000**	**24,498.8263**	**24,498.8263**	**0.4069**	**1.9387**	**25,086.7246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7154	23.1548	9.0983	0.1141	4.3454	0.1940	4.5394	1.2537	0.1856	1.4393	0.0000	10,990.6692	10,990.6692	0.1301	1.6162	11,475.5436
Worker	4.7481	3.0909	45.5600	0.1473	19.5977	0.0799	19.6776	5.2040	0.0735	5.2775	0.0000	13,508.1572	13,508.1572	0.2768	0.3225	13,611.1810
Total	**5.4635**	**26.2457**	**54.6583**	**0.2614**	**23.9431**	**0.2739**	**24.2169**	**6.4577**	**0.2591**	**6.7167**	**0.0000**	**24,498.8263**	**24,498.8263**	**0.4069**	**1.9387**	**25,086.7246**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7080	22.9177	9.0274	0.1119	4.3453	0.1929	4.5382	1.2537	0.1846	1.4382	0.0000	10,776.4764	10,776.4764	0.1341	1.5820	11,251.2625
Worker	4.4716	2.8155	42.9507	0.1431	19.5977	0.0749	19.6726	5.2040	0.0690	5.2729	0.0000	13,120.0402	13,120.0402	0.2526	0.3054	13,217.3622
Total	**5.1796**	**25.7333**	**51.9780**	**0.2550**	**23.9430**	**0.2679**	**24.2109**	**6.4576**	**0.2535**	**6.7112**	**0.0000**	**23,896.5165**	**23,896.5165**	**0.3867**	**1.8874**	**24,468.6247**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.7080	22.9177	9.0274	0.1119	4.3453	0.1929	4.5382	1.2537	0.1846	1.4382	0.0000	10,776.4764	10,776.4764	0.1341	1.5820	11,251.2625
Worker	4.4716	2.8155	42.9507	0.1431	19.5977	0.0749	19.6726	5.2040	0.0690	5.2729	0.0000	13,120.0402	13,120.0402	0.2526	0.3054	13,217.3622
Total	**5.1796**	**25.7333**	**51.9780**	**0.2550**	**23.9430**	**0.2679**	**24.2109**	**6.4576**	**0.2535**	**6.7112**	**0.0000**	**23,896.5165**	**23,896.5165**	**0.3867**	**1.8874**	**24,468.6247**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6998	22.6419	8.9436	0.1093	4.3286	0.1913	4.5199	1.2489	0.1830	1.4319	0.0000	10,530.3176	10,530.3176	0.1378	1.5430	10,993.5747
Worker	4.2062	2.5753	40.6134	0.1388	19.5226	0.0696	19.5922	5.1840	0.0640	5.2481	0.0000	12,728.0239	12,728.0239	0.2310	0.2900	12,820.2279
Total	**4.9060**	**25.2172**	**49.5570**	**0.2481**	**23.8512**	**0.2609**	**24.1121**	**6.4329**	**0.2470**	**6.6799**	**0.0000**	**23,258.3416**	**23,258.3416**	**0.3687**	**1.8330**	**23,813.8026**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6998	22.6419	8.9436	0.1093	4.3286	0.1913	4.5199	1.2489	0.1830	1.4319	0.0000	10,530.3176	10,530.3176	0.1378	1.5430	10,993.5747
Worker	4.2062	2.5753	40.6134	0.1388	19.5226	0.0696	19.5922	5.1840	0.0640	5.2481	0.0000	12,728.0239	12,728.0239	0.2310	0.2900	12,820.2279
Total	**4.9060**	**25.2172**	**49.5570**	**0.2481**	**23.8512**	**0.2609**	**24.1121**	**6.4329**	**0.2470**	**6.6799**	**0.0000**	**23,258.3416**	**23,258.3416**	**0.3687**	**1.8330**	**23,813.8026**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6980	22.5571	8.9392	0.1077	4.3452	0.1911	4.5363	1.2536	0.1828	1.4364	0.0000	10,377.2131	10,377.2131	0.1424	1.5179	10,833.1000
Worker	3.9852	2.3872	38.8669	0.1360	19.5977	0.0651	19.6628	5.2040	0.0599	5.2639	0.0000	12,473.3871	12,473.3871	0.2136	0.2791	12,561.8907
Total	**4.6832**	**24.9443**	**47.8060**	**0.2437**	**23.9429**	**0.2562**	**24.1991**	**6.4576**	**0.2427**	**6.7003**	**0.0000**	**22,850.6002**	**22,850.6002**	**0.3561**	**1.7969**	**23,394.9908**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6980	22.5571	8.9392	0.1077	4.3452	0.1911	4.5363	1.2536	0.1828	1.4364	0.0000	10,377.2131	10,377.2131	0.1424	1.5179	10,833.1000
Worker	3.9852	2.3872	38.8669	0.1360	19.5977	0.0651	19.6628	5.2040	0.0599	5.2639	0.0000	12,473.3871	12,473.3871	0.2136	0.2791	12,561.8907
Total	**4.6832**	**24.9443**	**47.8060**	**0.2437**	**23.9429**	**0.2562**	**24.1991**	**6.4576**	**0.2427**	**6.7003**	**0.0000**	**22,850.6002**	**22,850.6002**	**0.3561**	**1.7969**	**23,394.9908**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6945	22.3959	8.9109	0.1057	4.3452	0.1901	4.5353	1.2536	0.1819	1.4355	0.0000	10,195.0787	10,195.0787	0.1464	1.4887	10,642.3805
Worker	3.7641	2.2177	37.2384	0.1331	19.5977	0.0607	19.6584	5.2040	0.0559	5.2599	0.0000	12,205.3169	12,205.3169	0.1977	0.2689	12,290.3816
Total	**4.4586**	**24.6136**	**46.1493**	**0.2388**	**23.9429**	**0.2508**	**24.1937**	**6.4576**	**0.2377**	**6.6953**	**0.0000**	**22,400.3956**	**22,400.3956**	**0.3440**	**1.7576**	**22,932.7621**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6945	22.3959	8.9109	0.1057	4.3452	0.1901	4.5353	1.2536	0.1819	1.4355	0.0000	10,195.0787	10,195.0787	0.1464	1.4887	10,642.3805
Worker	3.7641	2.2177	37.2384	0.1331	19.5977	0.0607	19.6584	5.2040	0.0559	5.2599	0.0000	12,205.3169	12,205.3169	0.1977	0.2689	12,290.3816
Total	**4.4586**	**24.6136**	**46.1493**	**0.2388**	**23.9429**	**0.2508**	**24.1937**	**6.4576**	**0.2377**	**6.6953**	**0.0000**	**22,400.3956**	**22,400.3956**	**0.3440**	**1.7576**	**22,932.7621**

3.4 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6916	22.4012	8.9200	0.1039	4.3451	0.1833	4.5284	1.2536	0.1753	1.4289	0.0000	10,019.9441	10,019.9441	0.1501	1.4610	10,459.0637
Worker	3.5514	2.0696	36.1717	0.1308	19.5977	0.0576	19.6552	5.2040	0.0530	5.2569	0.0000	11,991.7651	11,991.7651	0.1845	0.2604	12,073.9846
Total	**4.2430**	**24.4708**	**45.0916**	**0.2347**	**23.9428**	**0.2408**	**24.1837**	**6.4576**	**0.2283**	**6.6859**	**0.0000**	**22,011.7092**	**22,011.7092**	**0.3346**	**1.7214**	**22,533.0483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6916	22.4012	8.9200	0.1039	4.3451	0.1833	4.5284	1.2536	0.1753	1.4289	0.0000	10,019.9441	10,019.9441	0.1501	1.4610	10,459.0637
Worker	3.5514	2.0696	36.1717	0.1308	19.5977	0.0576	19.6552	5.2040	0.0530	5.2569	0.0000	11,991.7651	11,991.7651	0.1845	0.2604	12,073.9846
Total	**4.2430**	**24.4708**	**45.0916**	**0.2347**	**23.9428**	**0.2408**	**24.1837**	**6.4576**	**0.2283**	**6.6859**	**0.0000**	**22,011.7092**	**22,011.7092**	**0.3346**	**1.7214**	**22,533.0483**

3.4 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	0.1519	0.9204	1.8742	3.5900e-003		0.0172	0.0172		0.0172	0.0172	0.0000	304.9188	304.9188	0.0122	0.0000	305.2246
Total	**0.1519**	**0.9204**	**1.8742**	**3.5900e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**304.9188**	**304.9188**	**0.0122**	**0.0000**	**305.2246**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6144	19.7989	7.9350	0.0910	3.8623	0.1623	4.0246	1.1143	0.1552	1.2695	0.0000	8,777.0781	8,777.0781	0.1365	1.2781	9,161.3545
Worker	2.9846	1.7275	31.0332	0.1142	17.4202	0.0479	17.4681	4.6257	0.0441	4.6698	0.0000	10,473.7907	10,473.7907	0.1529	0.2250	10,544.6493
Total	**3.5990**	**21.5264**	**38.9681**	**0.2052**	**21.2825**	**0.2102**	**21.4926**	**5.7401**	**0.1993**	**5.9394**	**0.0000**	**19,250.8688**	**19,250.8688**	**0.2893**	**1.5030**	**19,706.0038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1519	0.9204	1.8742	3.5900e-003		0.0172	0.0172		0.0172	0.0172	0.0000	304.9184	304.9184	0.0122	0.0000	305.2242
Total	**0.1519**	**0.9204**	**1.8742**	**3.5900e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**304.9184**	**304.9184**	**0.0122**	**0.0000**	**305.2242**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.6144	19.7989	7.9350	0.0910	3.8623	0.1623	4.0246	1.1143	0.1552	1.2695	0.0000	8,777.0781	8,777.0781	0.1365	1.2781	9,161.3545
Worker	2.9846	1.7275	31.0332	0.1142	17.4202	0.0479	17.4681	4.6257	0.0441	4.6698	0.0000	10,473.7907	10,473.7907	0.1529	0.2250	10,544.6493
Total	**3.5990**	**21.5264**	**38.9681**	**0.2052**	**21.2825**	**0.2102**	**21.4926**	**5.7401**	**0.1993**	**5.9394**	**0.0000**	**19,250.8688**	**19,250.8688**	**0.2893**	**1.5030**	**19,706.0038**

3.5 Paving - 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	0.0208	0.1068	0.2377	4.2000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003	0.0000	36.1493	36.1493	1.6900e-003	0.0000	36.1916
Paving	5.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0261**	**0.1068**	**0.2377**	**4.2000e-004**		**4.9600e-003**	**4.9600e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**36.1493**	**36.1493**	**1.6900e-003**	**0.0000**	**36.1916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.2000e-004	2.5000e-004	4.4100e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.6000e-004	0.0000	1.4869	1.4869	2.0000e-005	3.0000e-005	1.4970
Total	**4.2000e-004**	**2.5000e-004**	**4.4100e-003**	**2.0000e-005**	**2.4700e-003**	**1.0000e-005**	**2.4800e-003**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**1.4869**	**1.4869**	**2.0000e-005**	**3.0000e-005**	**1.4970**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0208	0.1068	0.2377	4.2000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003	0.0000	36.1492	36.1492	1.6900e-003	0.0000	36.1916
Paving	5.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0261**	**0.1068**	**0.2377**	**4.2000e-004**		**4.9600e-003**	**4.9600e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**36.1492**	**36.1492**	**1.6900e-003**	**0.0000**	**36.1916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.2000e-004	2.5000e-004	4.4100e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.6000e-004	0.0000	1.4869	1.4869	2.0000e-005	3.0000e-005	1.4970
Total	**4.2000e-004**	**2.5000e-004**	**4.4100e-003**	**2.0000e-005**	**2.4700e-003**	**1.0000e-005**	**2.4800e-003**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**1.4869**	**1.4869**	**2.0000e-005**	**3.0000e-005**	**1.4970**

3.5 Paving - 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	0.0796	0.4094	0.9114	1.6100e-003		0.0190	0.0190		0.0190	0.0190	0.0000	138.5722	138.5722	6.5000e-003	0.0000	138.7346
Paving	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1000**	**0.4094**	**0.9114**	**1.6100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**138.5722**	**138.5722**	**6.5000e-003**	**0.0000**	**138.7346**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.5400e-003	8.9000e-004	0.0164	6.0000e-005	9.4800e-003	2.0000e-005	9.5000e-003	2.5200e-003	2.0000e-005	2.5400e-003	0.0000	5.6111	5.6111	8.0000e-005	1.2000e-004	5.6486
Total	**1.5400e-003**	**8.9000e-004**	**0.0164**	**6.0000e-005**	**9.4800e-003**	**2.0000e-005**	**9.5000e-003**	**2.5200e-003**	**2.0000e-005**	**2.5400e-003**	**0.0000**	**5.6111**	**5.6111**	**8.0000e-005**	**1.2000e-004**	**5.6486**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0796	0.4094	0.9114	1.6100e-003		0.0190	0.0190		0.0190	0.0190	0.0000	138.5720	138.5720	6.5000e-003	0.0000	138.7345
Paving	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1000**	**0.4094**	**0.9114**	**1.6100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**138.5720**	**138.5720**	**6.5000e-003**	**0.0000**	**138.7345**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.5400e-003	8.9000e-004	0.0164	6.0000e-005	9.4800e-003	2.0000e-005	9.5000e-003	2.5200e-003	2.0000e-005	2.5400e-003	0.0000	5.6111	5.6111	8.0000e-005	1.2000e-004	5.6486
Total	**1.5400e-003**	**8.9000e-004**	**0.0164**	**6.0000e-005**	**9.4800e-003**	**2.0000e-005**	**9.5000e-003**	**2.5200e-003**	**2.0000e-005**	**2.5400e-003**	**0.0000**	**5.6111**	**5.6111**	**8.0000e-005**	**1.2000e-004**	**5.6486**

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	4.8595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.0621	0.1303	2.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	18.5111	18.5111	7.5000e-004	0.0000	18.5298
Total	**4.8690**	**0.0621**	**0.1303**	**2.2000e-004**		**1.4700e-003**	**1.4700e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**18.5111**	**18.5111**	**7.5000e-004**	**0.0000**	**18.5298**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3538	0.2043	3.7589	0.0141	2.1778	5.6200e-003	2.1835	0.5783	5.1700e-003	0.5835	0.0000	1,289.0384	1,289.0384	0.0179	0.0275	1,297.6653
Total	**0.3538**	**0.2043**	**3.7589**	**0.0141**	**2.1778**	**5.6200e-003**	**2.1835**	**0.5783**	**5.1700e-003**	**0.5835**	**0.0000**	**1,289.0384**	**1,289.0384**	**0.0179**	**0.0275**	**1,297.6653**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.8595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4800e-003	0.0621	0.1303	2.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	18.5111	18.5111	7.5000e-004	0.0000	18.5298
Total	**4.8690**	**0.0621**	**0.1303**	**2.2000e-004**		**1.4700e-003**	**1.4700e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**18.5111**	**18.5111**	**7.5000e-004**	**0.0000**	**18.5298**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3538	0.2043	3.7589	0.0141	2.1778	5.6200e-003	2.1835	0.5783	5.1700e-003	0.5835	0.0000	1,289.0384	1,289.0384	0.0179	0.0275	1,297.6653
Total	**0.3538**	**0.2043**	**3.7589**	**0.0141**	**2.1778**	**5.6200e-003**	**2.1835**	**0.5783**	**5.1700e-003**	**0.5835**	**0.0000**	**1,289.0384**	**1,289.0384**	**0.0179**	**0.0275**	**1,297.6653**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	10.9784	22.8731	123.3129	0.3574	45.7324	0.2734	46.0058	12.2268	0.2577	12.4845	0.0000	33,190.0647	33,190.0647	1.3564	1.8467	33,774.2747
Unmitigated	11.0917	23.2169	125.2923	0.3645	46.6657	0.2787	46.9444	12.4763	0.2627	12.7390	0.0000	33,847.5453	33,847.5453	1.3766	1.8783	34,441.6985

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	59,671
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	24,979,033
Elementary School	1,745.26	0.00	0.00	4,296,319	4,210,392
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,474,550
General Heavy Industry	129.93	129.93	129.93	575,366	563,859
Office Park	17,788.56	5,858.08	2714.72	47,067,308	46,125,961
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,021,033
Single Family Housing	47.20	47.70	42.75	159,361	156,174
Total	38,946.75	25,360.52	21,550.17	123,051,708	120,590,674

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13,050.2717	13,050.2717	1.1015	0.1335	13,117.5958
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13,089.6697	13,089.6697	1.1048	0.1339	13,157.1971
NaturalGas Mitigated	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	7,113.6711	7,113.6711	0.1364	0.1304	7,155.9441
NaturalGas Unmitigated	0.7188	6.4351	4.7593	0.0392		0.4966	0.4966		0.4966	0.4966	0.0000	7,113.6711	7,113.6711	0.1364	0.1304	7,155.9441

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	1.46554e+007	0.0790	0.6753	0.2874	4.3100e-003		0.0546	0.0546		0.0546	0.0546	0.0000	782.0696	782.0696	0.0150	0.0143	786.7171
Elementary School	5.07239e+006	0.0274	0.2487	0.2089	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.6819	270.6819	5.1900e-003	4.9600e-003	272.2905
General Heavy Industry	1.97213e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2404	105.2404	2.0200e-003	1.9300e-003	105.8658
General Heavy Industry	8.21036e+007	0.4427	4.0247	3.3807	0.0242		0.3059	0.3059		0.3059	0.3059	0.0000	4,381.3601	4,381.3601	0.0840	0.0803	4,407.3963
Office Park	1.03231e+007	0.0557	0.5060	0.4251	3.0400e-003		0.0385	0.0385		0.0385	0.0385	0.0000	550.8789	550.8789	0.0106	0.0101	554.1525
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	1.90371e+007	0.1027	0.8772	0.3733	5.6000e-003		0.0709	0.0709		0.0709	0.0709	0.0000	1,015.8927	1,015.8927	0.0195	0.0186	1,021.9297
Single Family Housing	141435	7.6000e-004	6.5200e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5475	7.5475	1.4000e-004	1.4000e-004	7.5924
Total		**0.7188**	**6.4351**	**4.7593**	**0.0392**		**0.4966**	**0.4966**		**0.4966**	**0.4966**	**0.0000**	**7,113.6711**	**7,113.6711**	**0.1364**	**0.1304**	**7,155.9441**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	1.46554e+007	0.0790	0.6753	0.2874	4.3100e-003		0.0546	0.0546		0.0546	0.0546	0.0000	782.0696	782.0696	0.0150	0.0143	786.7171
Elementary School	5.07239e+006	0.0274	0.2487	0.2089	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.6819	270.6819	5.1900e-003	4.9600e-003	272.2905
General Heavy Industry	1.97213e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2404	105.2404	2.0200e-003	1.9300e-003	105.8658
General Heavy Industry	8.21036e+007	0.4427	4.0247	3.3807	0.0242		0.3059	0.3059		0.3059	0.3059	0.0000	4,381.3601	4,381.3601	0.0840	0.0803	4,407.3963
Office Park	1.03231e+007	0.0557	0.5060	0.4251	3.0400e-003		0.0385	0.0385		0.0385	0.0385	0.0000	550.8789	550.8789	0.0106	0.0101	554.1525
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	1.90371e+007	0.1027	0.8772	0.3733	5.6000e-003		0.0709	0.0709		0.0709	0.0709	0.0000	1,015.8927	1,015.8927	0.0195	0.0186	1,021.9297
Single Family Housing	141435	7.6000e-004	6.5200e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5475	7.5475	1.4000e-004	1.4000e-004	7.5924
Total		**0.7188**	**6.4351**	**4.7593**	**0.0392**		**0.4966**	**0.4966**		**0.4966**	**0.4966**	**0.0000**	**7,113.6711**	**7,113.6711**	**0.1364**	**0.1304**	**7,155.9441**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.29984e+006	762.5581	0.0644	7.8000e-003	766.4920
Elementary School	4.09177e+006	725.6563	0.0613	7.4200e-003	729.3998
General Heavy Industry	2.51923e+007	4,467.7450	0.3771	0.0457	4,490.7934
General Heavy Industry	605120	107.3153	9.0600e-003	1.1000e-003	107.8690
Office Park	3.42198e+007	6,068.7220	0.5122	0.0621	6,100.0295
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39823.3	7.0625	6.0000e-004	7.0000e-005	7.0989
Single Family Housing	5.36022e+006	950.6105	0.0802	9.7300e-003	955.5145
Total		**13,089.6697**	**1.1048**	**0.1339**	**13,157.1971**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.19167e+006	743.3738	0.0627	7.6100e-003	747.2087
Elementary School	4.09177e+006	725.6563	0.0613	7.4200e-003	729.3998
General Heavy Industry	2.51923e+007	4,467.7450	0.3771	0.0457	4,490.7934
General Heavy Industry	605120	107.3153	9.0600e-003	1.1000e-003	107.8690
Office Park	3.42198e+007	6,068.7220	0.5122	0.0621	6,100.0295
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38982.7	6.9134	5.8000e-004	7.0000e-005	6.9491
Single Family Housing	5.24708e+006	930.5458	0.0785	9.5200e-003	935.3463
Total		**13,050.2717**	**1.1015**	**0.1335**	**13,117.5958**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	35.0487	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Unmitigated	37.1558	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.5931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.0322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5306	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Total	**37.1558**	**0.2021**	**17.5472**	**9.3000e-004**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**28.7684**	**28.7684**	**0.0277**	**0.0000**	**29.4610**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.0322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5306	0.2021	17.5472	9.3000e-004		0.0974	0.0974		0.0974	0.0974	0.0000	28.7684	28.7684	0.0277	0.0000	29.4610
Total	**35.0487**	**0.2021**	**17.5472**	**9.3000e-004**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**28.7684**	**28.7684**	**0.0277**	**0.0000**	**29.4610**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,551.7538	44.7850	1.0914	5,996.6156
Unmitigated	4,614.7642	44.7903	1.0921	6,059.9510

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 21.9233	43.1956	3.6500e-003	4.4000e-004	43.4184
Condo/Townhouse High Rise	66.392 / 41.8558	256.8453	2.1833	0.0535	327.3688
Elementary School	16.9255 / 43.5227	130.2075	0.5621	0.0143	148.5202
General Heavy Industry	601.377 / 0	1,579.4993	19.7131	0.4769	2,214.4455
Office Park	634.865 / 389.111	2,434.1223	20.8755	0.5113	3,108.3807
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	44.1744 / 27.8491	170.8942	1.4527	0.0356	217.8175
Total		**4,614.7642**	**44.7903**	**1.0920**	**6,059.9510**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 20.5859	40.5607	3.4200e-003	4.1000e-004	40.7699
Condo/Townhouse High Rise	66.392 / 39.3026	251.8147	2.1829	0.0534	322.3122
Elementary School	16.9255 / 40.8678	124.9766	0.5616	0.0143	143.2623
General Heavy Industry	601.377 / 0	1,579.4993	19.7131	0.4769	2,214.4455
Office Park	634.865 / 365.375	2,387.3556	20.8716	0.5108	3,061.3727
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	44.1744 / 26.1503	167.5470	1.4524	0.0356	214.4531
Total		**4,551.7538**	**44.7850**	**1.0914**	**5,996.6156**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	434.9467	25.7046	0.0000	1,077.5621
Unmitigated	1,739.7868	102.8185	0.0000	4,310.2482

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.58	0.3207	0.0190	0.0000	0.7946
Condo/Townhouse High Rise	468.74	95.1500	5.6232	0.0000	235.7301
Elementary School	758.81	154.0316	9.1030	0.0000	381.6067
General Heavy Industry	3224.68	654.5809	38.6846	0.0000	1,621.6965
Office Park	3321.96	674.3279	39.8516	0.0000	1,670.6187
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	794.99	161.3758	9.5370	0.0000	399.8017
Total		**1,739.7868**	**102.8185**	**0.0000**	**4,310.2482**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.395	0.0802	4.7400e-003	0.0000	0.1987
Condo/Townhouse High Rise	117.185	23.7875	1.4058	0.0000	58.9325
Elementary School	189.702	38.5079	2.2758	0.0000	95.4017
General Heavy Industry	806.17	163.6452	9.6712	0.0000	405.4241
Office Park	830.49	168.5820	9.9629	0.0000	417.6547
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	198.748	40.3440	2.3843	0.0000	99.9504
Total		**434.9467**	**25.7046**	**0.0000**	**1,077.5621**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan - Mitigated

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - MM AIR-1b

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - MM AIR-1b

Energy Mitigation -

Water Mitigation -

Waste Mitigation - AB-341

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	10
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	600.00	80.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00
tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	218.51	117.70
tblLandUse	LotAcreage	1.62	6.40
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00
tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	3.2862	32.4172	28.4068	0.0640	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	72.5850	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**72.5850**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2862	32.4172	28.4068	0.0640	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	72.5850	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**72.5850**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247
Total	**290.0542**	**168.2885**	**1,020.8716**	**2.5846**	**292.9723**	**5.1829**	**298.1553**	**78.2088**	**5.0856**	**83.2945**	**0.0000**	**284,804.9396**	**284,804.9396**	**10.4204**	**13.0561**	**288,956.1719**

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	193.3849	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	80.4640	129.4821	840.2804	2.3164	287.1129	1.6509	288.7637	76.6446	1.5554	78.2000		236,881.7567	236,881.7567	9.2107	12.0622	240,706.5526
Total	**277.7876**	**166.3591**	**1,006.7364**	**2.5386**	**287.1129**	**5.1511**	**292.2640**	**76.6446**	**5.0557**	**81.7003**	**0.0000**	**280,102.4647**	**280,102.4647**	**10.2785**	**12.8499**	**284,188.6999**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**4.23**	**1.15**	**1.38**	**1.78**	**2.00**	**0.61**	**1.98**	**2.00**	**0.59**	**1.91**	**0.00**	**1.65**	**1.65**	**1.36**	**1.58**	**1.65**

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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	67.0274					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	**67.1582**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	67.0274					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	**67.1582**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	80.4640	129.4821	840.2804	2.3164	287.1129	1.6509	288.7637	76.6446	1.5554	78.2000		236,881.7567	236,881.7567	9.2107	12.0622	240,706.5526
Unmitigated	81.1847	131.4115	854.4157	2.3623	292.9723	1.6826	294.6550	78.2088	1.5853	79.7942		241,584.2316	241,584.2316	9.3525	12.2684	245,474.0247

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	59,671
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	24,979,033
Elementary School	1,745.26	0.00	0.00	4,296,319	4,210,392
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,474,550
General Heavy Industry	129.93	129.93	129.93	575,366	563,859
Office Park	17,788.56	5,858.08	2714.72	47,067,308	46,125,961
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,021,033
Single Family Housing	47.20	47.70	42.75	159,361	156,174
Total	38,946.75	25,360.52	21,550.17	123,051,708	120,590,674

4.3 Trip Type Information

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	193.3849	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.6627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**193.3849**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan - Mitigated

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - MM AIR-1b

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - MM AIR-1b

Energy Mitigation -

Water Mitigation -

Waste Mitigation - AB-341

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	10
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	600.00	80.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00
tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	218.51	117.70
tblLandUse	LotAcreage	1.62	6.40
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00
tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	3.2821	32.4186	28.2785	0.0638	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	72.3750	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**72.3750**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2821	32.4186	28.2785	0.0638	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	72.3750	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**72.3750**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782
Total	**277.5295**	**176.8008**	**924.4133**	**2.4261**	**292.9723**	**5.1846**	**298.1570**	**78.2088**	**5.0873**	**83.2961**	**0.0000**	**268,773.3927**	**268,773.3927**	**10.5863**	**13.2540**	**272,987.7255**

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	193.3849	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	67.9472	137.8728	746.1179	2.1610	287.1129	1.6526	288.7655	76.6446	1.5570	78.2017		221,173.2749	221,173.2749	9.3795	12.2572	225,060.4218
Total	**265.2707**	**174.7498**	**912.5738**	**2.3833**	**287.1129**	**5.1529**	**292.2658**	**76.6446**	**5.0573**	**81.7020**	**0.0000**	**264,393.9829**	**264,393.9829**	**10.4474**	**13.0450**	**268,542.5690**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**4.42**	**1.16**	**1.28**	**1.76**	**2.00**	**0.61**	**1.98**	**2.00**	**0.59**	**1.91**	**0.00**	**1.63**	**1.63**	**1.31**	**1.58**	**1.63**

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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	67.0274					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	**67.1582**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	67.0274					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	**67.1582**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	67.9472	137.8728	746.1179	2.1610	287.1129	1.6526	288.7655	76.6446	1.5570	78.2017		221,173.2749	221,173.2749	9.3795	12.2572	225,060.4218
Unmitigated	68.6599	139.9238	757.9574	2.2039	292.9723	1.6844	294.6567	78.2088	1.5870	79.7958		225,552.6847	225,552.6847	9.5184	12.4662	229,505.5782

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	60,889	59,671
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	25,488,810	24,979,033
Elementary School	1,745.26	0.00	0.00	4,296,319	4,210,392
General Heavy Industry	5,409.24	5,409.24	5409.24	23,953,622	23,474,550
General Heavy Industry	129.93	129.93	129.93	575,366	563,859
Office Park	17,788.56	5,858.08	2714.72	47,067,308	46,125,961
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	21,450,034	21,021,033
Single Family Housing	47.20	47.70	42.75	159,361	156,174
Total	38,946.75	25,360.52	21,550.17	123,051,708	120,590,674

4.3 Trip Type Information

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Rio Vista Specific Plan - Mitigated - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	193.3849	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.6627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**193.3849**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan - LST

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips. For LST analysis, a maximum onsite trip length of 3.5 miles is estimated.

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	600.00	80.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12
tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	218.51	117.70
tblLandUse	LotAcreage	1.62	6.40
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	HO_TL	8.70	3.50
tblVehicleTrips	HO_TL	8.70	3.50
tblVehicleTrips	HS_TL	5.90	3.50
tblVehicleTrips	HS_TL	5.90	3.50
tblVehicleTrips	HW_TL	14.70	3.50
tblVehicleTrips	HW_TL	14.70	3.50
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00
tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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					
2024	3.2862	32.4172	28.4068	0.0640	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	363.2268	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**363.2268**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2862	32.4172	28.4068	0.0640	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,202.1700	6,202.1700	1.9478	4.3600e-003	6,252.1650
2025	50.5748	207.8844	519.9533	2.1733	186.4796	2.6649	189.1445	50.2224	2.5175	52.7399	0.0000	223,982.8366	223,982.8366	4.2326	16.6880	229,061.6660
2026	47.8540	203.8362	491.8260	2.1175	186.4790	2.6241	189.1031	50.2222	2.4796	52.7018	0.0000	218,293.7041	218,293.7041	4.0303	16.2440	223,235.1676
2027	45.3744	200.1427	467.7412	2.0651	186.4785	2.5783	189.0568	50.2220	2.4371	52.6591	0.0000	212,938.2719	212,938.2719	3.8564	15.8177	217,748.3638
2028	43.1582	197.1212	447.7183	2.0174	186.4781	2.5325	189.0106	50.2219	2.3947	52.6166	0.0000	208,069.5744	208,069.5744	3.7155	15.4239	212,758.7872
2029	41.0513	194.4531	430.3157	1.9744	186.4778	2.4886	188.9664	50.2218	2.3540	52.5758	0.0000	203,665.7837	203,665.7837	3.5953	15.0645	208,244.8821
2030	39.0358	187.5324	415.5493	1.9395	186.4776	2.0685	188.5461	50.2217	1.9682	52.1899	0.0000	200,025.9998	200,025.9998	3.0083	14.7364	204,492.6494
2031	37.1591	186.5051	406.3396	1.9062	186.4773	1.9918	188.4691	50.2215	1.8957	52.1173	0.0000	196,610.2721	196,610.2721	2.9297	14.4342	200,984.9069
2032	35.4641	184.6731	395.0979	1.8756	186.4770	1.9582	188.4352	50.2214	1.8646	52.0861	0.0000	193,479.4444	193,479.4444	2.8523	14.1797	197,776.2939
2033	363.2268	7.1348	62.1836	0.2119	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	21,403.9483	21,403.9483	0.2791	0.4011	21,530.4438
Maximum	**363.2268**	**207.8844**	**519.9533**	**2.1733**	**186.4796**	**2.6649**	**189.1445**	**50.2224**	**2.5175**	**52.7399**	**0.0000**	**223,982.8366**	**223,982.8366**	**4.2326**	**16.6880**	**229,061.6660**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	56.7512	64.2745	372.1753	0.7786	91.8259	0.5772	92.4032	24.5081	0.5424	25.0505		79,640.0657	79,640.0657	4.5214	5.0900	81,269.9197
Total	**265.6208**	**101.1515**	**538.6313**	**1.0009**	**91.8259**	**4.0775**	**95.9034**	**24.5081**	**4.0427**	**28.5508**	**0.0000**	**122,860.7737**	**122,860.7737**	**5.5893**	**5.8777**	**124,752.0670**

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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	56.7512	64.2745	372.1753	0.7786	91.8259	0.5772	92.4032	24.5081	0.5424	25.0505		79,640.0657	79,640.0657	4.5214	5.0900	81,269.9197
Total	**265.6208**	**101.1515**	**538.6313**	**1.0009**	**91.8259**	**4.0775**	**95.9034**	**24.5081**	**4.0427**	**28.5508**	**0.0000**	**122,860.7737**	**122,860.7737**	**5.5893**	**5.8777**	**124,752.0670**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0613	0.0362	0.6156	1.7100e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		173.1792	173.1792	3.7500e-003	3.9200e-003	174.4420
Total	**0.0613**	**0.0362**	**0.6156**	**1.7100e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**173.1792**	**173.1792**	**3.7500e-003**	**3.9200e-003**	**174.4420**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	**0.0681**	**0.0402**	**0.6840**	**1.9000e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**192.4214**	**192.4214**	**4.1600e-003**	**4.3600e-003**	**193.8244**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0636	0.0360	0.6361	1.8400e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		185.8596	185.8596	3.7500e-003	4.0700e-003	187.1656
Total	**0.0636**	**0.0360**	**0.6361**	**1.8400e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**185.8596**	**185.8596**	**3.7500e-003**	**4.0700e-003**	**187.1656**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7710	170.8045	69.3020	0.8901	33.7594	1.4909	35.2503	9.7203	1.4262	11.1465		94,456.3701	94,456.3701	1.0690	13.9090	98,627.9625
Worker	43.4364	24.6103	434.5666	1.2562	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		126,969.9922	126,969.9922	2.5627	2.7790	127,862.2055
Total	**49.2074**	**195.4147**	**503.8686**	**2.1463**	**186.4796**	**2.1374**	**188.6169**	**50.2224**	**2.0213**	**52.2436**		**221,426.3623**	**221,426.3623**	**3.6317**	**16.6880**	**226,490.1680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.7015	169.0939	68.6384	0.8736	33.7589	1.4846	35.2434	9.7201	1.4202	11.1402		92,737.8316	92,737.8316	1.1068	13.6294	96,827.0730
Worker	40.7851	22.2726	407.1030	1.2169	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		122,999.3981	122,999.3981	2.3225	2.6146	123,836.5965
Total	**46.4866**	**191.3665**	**475.7413**	**2.0905**	**186.4790**	**2.0965**	**188.5755**	**50.2222**	**1.9834**	**52.2055**		**215,737.2297**	**215,737.2297**	**3.4294**	**16.2440**	**220,663.6695**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.6421	167.3757	68.0973	0.8563	33.7584	1.4765	35.2349	9.7199	1.4124	11.1323		90,929.9902	90,929.9902	1.1403	13.3413	94,934.1995
Worker	38.3649	20.2974	383.5593	1.1818	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		119,451.8073	119,451.8073	2.1152	2.4764	120,242.6663
Total	**44.0070**	**187.6730**	**451.6565**	**2.0381**	**186.4785**	**2.0507**	**188.5292**	**50.2220**	**1.9409**	**52.1629**		**210,381.7975**	**210,381.7975**	**3.2554**	**15.8177**	**215,176.8658**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5984	166.0068	67.7193	0.8397	33.7580	1.4696	35.2276	9.7197	1.4059	11.1256		89,194.3575	89,194.3575	1.1761	13.0625	93,116.3913
Worker	36.1924	18.6448	363.9143	1.1508	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		116,318.7425	116,318.7425	1.9385	2.3614	117,070.8978
Total	**41.7908**	**184.6515**	**431.6336**	**1.9905**	**186.4781**	**2.0049**	**188.4831**	**50.2219**	**1.8985**	**52.1203**		**205,513.1000**	**205,513.1000**	**3.1146**	**15.4239**	**210,187.2891**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5621	164.7588	67.4215	0.8240	33.7577	1.4622	35.2199	9.7196	1.3988	11.1184		87,560.5247	87,560.5247	1.2109	12.8007	91,405.3948
Worker	34.1218	17.2247	346.8095	1.1234	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		113,548.7846	113,548.7846	1.7834	2.2638	114,267.9892
Total	**39.6839**	**181.9834**	**414.2310**	**1.9474**	**186.4778**	**1.9610**	**188.4389**	**50.2218**	**1.8578**	**52.0795**		**201,109.3094**	**201,109.3094**	**2.9943**	**15.0645**	**205,673.3840**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5342	163.5882	67.2044	0.8093	33.7575	1.4550	35.2124	9.7196	1.3918	11.1114		86,023.5098	86,023.5098	1.2441	12.5549	89,795.9843
Worker	32.1924	16.0096	332.1880	1.0992	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		111,104.9433	111,104.9433	1.6479	2.1815	111,796.2122
Total	**37.7266**	**179.5978**	**399.3924**	**1.9085**	**186.4776**	**1.9204**	**188.3979**	**50.2217**	**1.8201**	**52.0417**		**197,128.4530**	**197,128.4530**	**2.8920**	**14.7364**	**201,592.1965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5105	163.6180	67.2718	0.7952	33.7571	1.4026	35.1598	9.7194	1.3418	11.0612		84,545.4219	84,545.4219	1.2755	12.3207	88,248.8780
Worker	30.3395	14.9524	322.9109	1.0800	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		109,167.3035	109,167.3035	1.5379	2.1135	109,835.5760
Total	**35.8500**	**178.5705**	**390.1826**	**1.8752**	**186.4773**	**1.8437**	**188.3209**	**50.2215**	**1.7476**	**51.9691**		**193,712.7254**	**193,712.7254**	**2.8134**	**14.4342**	**198,084.4540**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.5071	162.6907	67.3193	0.7834	33.7568	1.3971	35.1540	9.7193	1.3365	11.0558		83,315.5258	83,315.5258	1.3046	12.1255	86,961.5501
Worker	28.6479	14.0478	311.6217	1.0612	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		107,266.3719	107,266.3719	1.4315	2.0541	107,914.2910
Total	**34.1550**	**176.7384**	**378.9410**	**1.8446**	**186.4770**	**1.8101**	**188.2871**	**50.2214**	**1.7165**	**51.9379**		**190,581.8977**	**190,581.8977**	**2.7361**	**14.1797**	**194,875.8411**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0315	0.0154	0.3421	1.1700e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		117.7630	117.7630	1.5700e-003	2.2600e-003	118.4743
Total	**0.0315**	**0.0154**	**0.3421**	**1.1700e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**117.7630**	**117.7630**	**1.5700e-003**	**2.2600e-003**	**118.4743**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0298	0.0146	0.3314	1.1500e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		115.9303	115.9303	1.4700e-003	2.2000e-003	116.6230
Total	**0.0298**	**0.0146**	**0.3314**	**1.1500e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**115.9303**	**115.9303**	**1.4700e-003**	**2.2000e-003**	**116.6230**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	357.6692					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	**357.7999**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	357.6692					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	**357.7999**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.4269	2.6596	60.3859	0.2090	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		21,122.5002	21,122.5002	0.2677	0.4011	21,248.7110
Total	**5.4269**	**2.6596**	**60.3859**	**0.2090**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**21,122.5002**	**21,122.5002**	**0.2677**	**0.4011**	**21,248.7110**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	56.7512	64.2745	372.1753	0.7786	91.8259	0.5772	92.4032	24.5081	0.5424	25.0505		79,640.0657	79,640.0657	4.5214	5.0900	81,269.9197
Unmitigated	56.7512	64.2745	372.1753	0.7786	91.8259	0.5772	92.4032	24.5081	0.5424	25.0505		79,640.0657	79,640.0657	4.5214	5.0900	81,269.9197

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	19,725	19,725
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	8,441,941	8,441,941
Elementary School	1,745.26	0.00	0.00	1,105,266	1,105,266
General Heavy Industry	5,409.24	5,409.24	5409.24	6,432,113	6,432,113
General Heavy Industry	129.93	129.93	129.93	154,499	154,499
Office Park	17,788.56	5,858.08	2714.72	15,233,985	15,233,985
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	7,104,291	7,104,291
Single Family Housing	47.20	47.70	42.75	52,781	52,781
Total	38,946.75	25,360.52	21,550.17	38,544,601	38,544,601

4.3 Trip Type Information

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	3.50	3.50	3.50	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3
Elementary School	3.50	3.50	3.50	65.00	30.00	5.00	63	25	12
General Heavy Industry	3.50	3.50	3.50	59.00	28.00	13.00	92	5	3
General Heavy Industry	3.50	3.50	3.50	59.00	28.00	13.00	92	5	3
Office Park	3.50	3.50	3.50	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	3.50	3.50	3.50	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	3.50	3.50	3.50	0.00	0.00	0.00	0	0	0
Single Family Housing	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3
Single Family Housing	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

Rio Vista Specific Plan - LST - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Rio Vista Specific Plan - LST

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	3,572.00	1000sqft	82.00	3,572,000.00	0
Elementary School	583.70	1000sqft	13.40	583,704.00	0
General Heavy Industry	2,539.55	1000sqft	58.30	2,539,548.00	0
General Heavy Industry	61.00	1000sqft	1.40	61,000.00	0
Other Asphalt Surfaces	19.60	Acre	19.60	853,776.00	0
Other Non-Asphalt Surfaces	519.80	Acre	519.80	22,642,488.00	0
City Park	18.40	Acre	18.40	801,504.00	0
Condo/Townhouse High Rise	1,019.00	Dwelling Unit	80.30	1,019,000.00	2914
Single Family Housing	673.00	Dwelling Unit	117.70	1,211,400.00	1925
Single Family Housing	5.00	Dwelling Unit	6.40	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2034
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 917.3 acre Specific Plan with a mixture of residential, commercial, and industrial uses

Construction Phase - Construction to begin January 1, 2034, and occur over 10 years

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per Traffic Impact Analysis, the project will generate 38,106 trips. For LST analysis, a maximum onsite trip length of 3.5 miles is estimated.

Woodstoves - No hearths

Area Coating - SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix - Industrial fleet mix per trip generation analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	600.00	80.00
tblConstructionPhase	NumDays	1,550.00	205.00
tblConstructionPhase	NumDays	15,500.00	2,035.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblConstructionPhase	NumDays	1,100.00	145.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	866.15	0.00
tblFireplaces	NumberGas	576.30	0.00
tblFireplaces	NumberNoFireplace	101.90	0.00
tblFireplaces	NumberNoFireplace	67.80	0.00
tblFireplaces	NumberWood	50.95	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	NumberWood	33.90	0.00
tblFleetMix	HHD	0.02	0.10
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDT1	0.06	0.05
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.3850e-003	6.9000e-003
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.12
tblFleetMix	MH	3.3760e-003	0.00
tblFleetMix	MHD	0.01	0.04
tblFleetMix	OBUS	5.8700e-004	0.00
tblFleetMix	SBUS	1.0400e-003	0.00
tblFleetMix	UBUS	2.6400e-004	0.00
tblLandUse	LandUseSquareFeet	583,700.00	583,704.00
tblLandUse	LandUseSquareFeet	2,539,550.00	2,539,548.00
tblLandUse	LotAcreage	15.92	80.30
tblLandUse	LotAcreage	218.51	117.70
tblLandUse	LotAcreage	1.62	6.40
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CC_TL	8.40	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CNW_TL	6.90	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	CW_TL	16.60	3.50
tblVehicleTrips	HO_TL	8.70	3.50
tblVehicleTrips	HO_TL	8.70	3.50
tblVehicleTrips	HS_TL	5.90	3.50
tblVehicleTrips	HS_TL	5.90	3.50
tblVehicleTrips	HW_TL	14.70	3.50
tblVehicleTrips	HW_TL	14.70	3.50
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	ST_TR	6.42	2.13
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	SU_TR	5.09	2.13
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	19.52	2.99
tblVehicleTrips	WD_TR	3.93	2.13
tblVehicleTrips	WD_TR	11.07	4.98
tblWoodstoves	NumberCatalytic	50.95	0.00
tblWoodstoves	NumberCatalytic	33.90	0.00
tblWoodstoves	NumberNoncatalytic	50.95	0.00
tblWoodstoves	NumberNoncatalytic	33.90	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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					
2024	3.2821	32.4186	28.2785	0.0638	19.8582	1.3364	21.0885	10.1558	1.2295	11.2876	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	363.0167	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**363.0167**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2024	3.2821	32.4186	28.2785	0.0638	7.8674	1.3364	9.0977	3.9933	1.2295	5.1251	0.0000	6,184.1340	6,184.1340	1.9478	4.4600e-003	6,234.1589
2025	47.6535	219.1449	441.2601	2.0581	186.4796	2.6698	189.1494	50.2224	2.5222	52.7446	0.0000	212,349.6737	212,349.6737	4.2166	16.7977	217,460.7919
2026	45.2035	214.9105	418.5698	2.0061	186.4790	2.6288	189.1078	50.2222	2.4841	52.7063	0.0000	207,051.6860	207,051.6860	4.0196	16.3484	212,023.9846
2027	42.9552	211.0484	399.1113	1.9571	186.4785	2.5828	189.0613	50.2220	2.4415	52.6635	0.0000	202,040.9107	202,040.9107	3.8499	15.9175	206,880.5792
2028	40.9320	207.8909	382.9139	1.9125	186.4781	2.5370	189.0151	50.2219	2.3990	52.6209	0.0000	197,472.6213	197,472.6213	3.7117	15.5198	202,190.3058
2029	39.0062	205.1032	368.8099	1.8720	186.4778	2.4930	188.9708	50.2218	2.3582	52.5800	0.0000	193,330.9035	193,330.9035	3.5938	15.1569	197,937.5096
2030	37.1531	198.0757	356.8444	1.8394	186.4776	2.0728	188.5503	50.2217	1.9723	52.1939	0.0000	189,919.7395	189,919.7395	3.0082	14.8258	194,413.0451
2031	35.4181	197.0455	349.0252	1.8076	186.4773	1.9960	188.4733	50.2215	1.8997	52.1213	0.0000	186,664.0801	186,664.0801	2.9284	14.5210	191,064.5507
2032	33.8608	195.1439	339.9428	1.7788	186.4770	1.9624	188.4393	50.2214	1.8686	52.0900	0.0000	183,708.9646	183,708.9646	2.8520	14.2644	188,031.0440
2033	363.0167	7.1353	51.0393	0.1925	30.5485	0.3311	30.6464	8.1016	0.3310	8.1933	0.0000	19,437.8590	19,437.8590	0.2832	0.4097	19,567.0304
Maximum	**363.0167**	**219.1449**	**441.2601**	**2.0581**	**186.4796**	**2.6698**	**189.1494**	**50.2224**	**2.5222**	**52.7446**	**0.0000**	**212,349.6737**	**212,349.6737**	**4.2166**	**16.7977**	**217,460.7919**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.78**	**0.00**	**0.77**	**1.47**	**0.00**	**1.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	44.4960	68.5778	354.2748	0.7296	91.8259	0.5790	92.4049	24.5081	0.5441	25.0522		74,682.4480	74,682.4480	4.7894	5.1938	76,349.9454
Total	**253.3656**	**105.4548**	**520.7307**	**0.9519**	**91.8259**	**4.0793**	**95.9052**	**24.5081**	**4.0444**	**28.5525**	**0.0000**	**117,903.1560**	**117,903.1560**	**5.8572**	**5.9816**	**119,832.0927**

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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Energy	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
Mobile	44.4960	68.5778	354.2748	0.7296	91.8259	0.5790	92.4049	24.5081	0.5441	25.0522		74,682.4480	74,682.4480	4.7894	5.1938	76,349.9454
Total	**253.3656**	**105.4548**	**520.7307**	**0.9519**	**91.8259**	**4.0793**	**95.9052**	**24.5081**	**4.0444**	**28.5525**	**0.0000**	**117,903.1560**	**117,903.1560**	**5.8572**	**5.9816**	**119,832.0927**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	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	1/1/2024	4/19/2024	5	80	
2	Grading	Grading	4/20/2024	1/31/2025	5	205	
3	Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035	
4	Paving	Paving	11/20/2032	6/10/2033	5	145	
5	Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145	

Acres of Grading (Site Preparation Phase): 120

Acres of Grading (Grading Phase): 615

Acres of Paving: 539.4

Residential Indoor: 4,534,785; Residential Outdoor: 1,511,595; Non-Residential Indoor: 10,134,380; Non-Residential Outdoor: 3,378,127; Striped Parking Area: 1,409,776 (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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13,663.00	5,271.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2,733.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			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**	**7.6662**	**1.2294**	**8.8956**	**3.9400**	**1.1310**	**5.0710**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0576	0.0375	0.5001	1.5500e-003	0.2012	9.0000e-004	0.2021	0.0534	8.3000e-004	0.0542		156.9468	156.9468	3.7400e-003	4.0100e-003	158.2365
Total	**0.0576**	**0.0375**	**0.5001**	**1.5500e-003**	**0.2012**	**9.0000e-004**	**0.2021**	**0.0534**	**8.3000e-004**	**0.0542**		**156.9468**	**156.9468**	**3.7400e-003**	**4.0100e-003**	**158.2365**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.3354**	**10.5390**	**3.6538**	**1.2286**	**4.8823**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.3354**	**4.9248**	**1.4250**	**1.2286**	**2.6535**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	**0.0640**	**0.0417**	**0.5557**	**1.7300e-003**	**0.2236**	**1.0000e-003**	**0.2246**	**0.0593**	**9.2000e-004**	**0.0602**		**174.3853**	**174.3853**	**4.1600e-003**	**4.4600e-003**	**175.8183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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**	**9.2036**	**1.1309**	**10.3345**	**3.6538**	**1.0404**	**4.6942**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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**	**3.5894**	**1.1309**	**4.7203**	**1.4250**	**1.0404**	**2.4654**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0600	0.0374	0.5175	1.6700e-003	0.2236	9.5000e-004	0.2245	0.0593	8.7000e-004	0.0602		168.4834	168.4834	3.7600e-003	4.1600e-003	169.8174
Total	**0.0600**	**0.0374**	**0.5175**	**1.6700e-003**	**0.2236**	**9.5000e-004**	**0.2245**	**0.0593**	**8.7000e-004**	**0.0602**		**168.4834**	**168.4834**	**3.7600e-003**	**4.1600e-003**	**169.8174**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.3347	181.1588	71.6800	0.8924	33.7594	1.4958	35.2552	9.7203	1.4309	11.1512		94,693.7919	94,693.7919	1.0494	13.9548	98,878.5587
Worker	40.9514	25.5164	353.4954	1.1387	152.7201	0.6465	153.3667	40.5021	0.5951	41.0972		115,099.4074	115,099.4074	2.5662	2.8429	116,010.7351
Total	**46.2861**	**206.6752**	**425.1754**	**2.0311**	**186.4796**	**2.1423**	**188.6219**	**50.2224**	**2.0260**	**52.2483**		**209,793.1994**	**209,793.1994**	**3.6156**	**16.7977**	**214,889.2938**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2670	179.3548	71.0141	0.8758	33.7589	1.4893	35.2481	9.7201	1.4247	11.1447		92,971.9435	92,971.9435	1.0873	13.6742	97,074.0476
Worker	38.5692	23.0860	331.4711	1.1033	152.7201	0.6119	153.3321	40.5021	0.5632	41.0653		111,523.2681	111,523.2681	2.3314	2.6741	112,378.4390
Total	**43.8361**	**202.4408**	**402.4852**	**1.9792**	**186.4790**	**2.1012**	**188.5802**	**50.2222**	**1.9879**	**52.2100**		**204,495.2116**	**204,495.2116**	**3.4187**	**16.3484**	**209,452.4866**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2089	177.5462	70.4718	0.8585	33.7584	1.4811	35.2394	9.7199	1.4168	11.1367		91,160.7555	91,160.7555	1.1207	13.3851	95,177.5343
Worker	36.3789	21.0325	312.5549	1.0717	152.7201	0.5742	153.2944	40.5021	0.5284	41.0305		108,323.6809	108,323.6809	2.1283	2.5324	109,131.5468
Total	**41.5878**	**198.5787**	**383.0267**	**1.9302**	**186.4785**	**2.0553**	**188.5338**	**50.2220**	**1.9452**	**52.1672**		**199,484.4364**	**199,484.4364**	**3.2490**	**15.9175**	**204,309.0811**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1664	176.1073	70.0963	0.8418	33.7580	1.4741	35.2321	9.7197	1.4101	11.1299		89,421.5056	89,421.5056	1.1565	13.1054	93,355.8369
Worker	34.3982	19.3139	296.7330	1.0437	152.7201	0.5353	153.2555	40.5021	0.4926	40.9947		105,494.6413	105,494.6413	1.9543	2.4143	106,262.9708
Total	**39.5646**	**195.4212**	**366.8293**	**1.8855**	**186.4781**	**2.0094**	**188.4875**	**50.2219**	**1.9027**	**52.1246**		**194,916.1469**	**194,916.1469**	**3.1108**	**15.5198**	**199,618.8078**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,556.4744	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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1314	174.7967	69.8012	0.8261	33.7577	1.4666	35.2243	9.7196	1.4029	11.1226		87,784.0528	87,784.0528	1.1913	12.8427	91,640.9690
Worker	32.5074	17.8368	282.9240	1.0189	152.7201	0.4988	153.2190	40.5021	0.4590	40.9611		102,990.3763	102,990.3763	1.8015	2.3142	103,725.0426
Total	**37.6388**	**192.6335**	**352.7252**	**1.8450**	**186.4778**	**1.9654**	**188.4432**	**50.2218**	**1.8619**	**52.0837**		**190,774.4291**	**190,774.4291**	**2.9928**	**15.1569**	**195,366.0116**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.1048	173.5696	69.5876	0.8114	33.7575	1.4592	35.2167	9.7196	1.3959	11.1155		86,243.6047	86,243.6047	1.2245	12.5963	90,027.8997
Worker	30.7392	16.5716	271.0999	0.9970	152.7201	0.4654	153.1855	40.5021	0.4282	40.9303		100,778.5881	100,778.5881	1.6675	2.2296	101,484.6926
Total	**35.8440**	**190.1411**	**340.6874**	**1.8084**	**186.4776**	**1.9246**	**188.4022**	**50.2217**	**1.8241**	**52.0458**		**187,022.1928**	**187,022.1928**	**2.8920**	**14.8258**	**191,512.5923**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0816	173.6436	69.6609	0.7972	33.7571	1.4068	35.1639	9.7194	1.3458	11.0652		84,762.5560	84,762.5560	1.2558	12.3614	88,477.6504
Worker	29.0274	15.4673	263.2073	0.9795	152.7201	0.4411	153.1612	40.5021	0.4058	40.9080		99,003.9773	99,003.9773	1.5563	2.1596	99,686.4474
Total	**34.1090**	**189.1109**	**332.8682**	**1.7767**	**186.4773**	**1.8479**	**188.3251**	**50.2215**	**1.7516**	**51.9731**		**183,766.5333**	**183,766.5333**	**2.8121**	**14.5210**	**188,164.0979**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.0783	172.6838	69.7212	0.7854	33.7568	1.4012	35.1581	9.7193	1.3404	11.0598		83,530.1100	83,530.1100	1.2849	12.1657	87,187.6175
Worker	27.4734	14.5255	254.0646	0.9624	152.7201	0.4130	153.1331	40.5021	0.3800	40.8821		97,281.3079	97,281.3079	1.4509	2.0986	97,942.9737
Total	**32.5517**	**187.2093**	**323.7858**	**1.7478**	**186.4770**	**1.8142**	**188.2912**	**50.2214**	**1.7204**	**51.9419**		**180,811.4179**	**180,811.4179**	**2.7358**	**14.2644**	**185,130.5912**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0302	0.0160	0.2789	1.0600e-003	0.1677	4.5000e-004	0.1681	0.0445	4.2000e-004	0.0449		106.8008	106.8008	1.5900e-003	2.3000e-003	107.5272
Total	**0.0302**	**0.0160**	**0.2789**	**1.0600e-003**	**0.1677**	**4.5000e-004**	**0.1681**	**0.0445**	**4.2000e-004**	**0.0449**		**106.8008**	**106.8008**	**1.5900e-003**	**2.3000e-003**	**107.5272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.3542					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7387**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0286	0.0151	0.2703	1.0400e-003	0.1677	4.3000e-004	0.1681	0.0445	3.9000e-004	0.0449		105.1395	105.1395	1.4900e-003	2.2500e-003	105.8469
Total	**0.0286**	**0.0151**	**0.2703**	**1.0400e-003**	**0.1677**	**4.3000e-004**	**0.1681**	**0.0445**	**3.9000e-004**	**0.0449**		**105.1395**	**105.1395**	**1.4900e-003**	**2.2500e-003**	**105.8469**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	357.6692					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	**357.7999**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	357.6692					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	**357.7999**	**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**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	5.2168	2.7491	49.2416	0.1895	30.5485	0.0776	30.6261	8.1016	0.0714	8.1730		19,156.4110	19,156.4110	0.2718	0.4097	19,285.2976
Total	**5.2168**	**2.7491**	**49.2416**	**0.1895**	**30.5485**	**0.0776**	**30.6261**	**8.1016**	**0.0714**	**8.1730**		**19,156.4110**	**19,156.4110**	**0.2718**	**0.4097**	**19,285.2976**

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	44.4960	68.5778	354.2748	0.7296	91.8259	0.5790	92.4049	24.5081	0.5441	25.0522		74,682.4480	74,682.4480	4.7894	5.1938	76,349.9454
Unmitigated	44.4960	68.5778	354.2748	0.7296	91.8259	0.5790	92.4049	24.5081	0.5441	25.0522		74,682.4480	74,682.4480	4.7894	5.1938	76,349.9454

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.35	36.06	40.30	19,725	19,725
Condo/Townhouse High Rise	7,459.08	7,459.08	7459.08	8,441,941	8,441,941
Elementary School	1,745.26	0.00	0.00	1,105,266	1,105,266
General Heavy Industry	5,409.24	5,409.24	5409.24	6,432,113	6,432,113
General Heavy Industry	129.93	129.93	129.93	154,499	154,499
Office Park	17,788.56	5,858.08	2714.72	15,233,985	15,233,985
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	6,353.12	6,420.42	5754.15	7,104,291	7,104,291
Single Family Housing	47.20	47.70	42.75	52,781	52,781
Total	38,946.75	25,360.52	21,550.17	38,544,601	38,544,601

4.3 Trip Type Information

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	3.50	3.50	3.50	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3
Elementary School	3.50	3.50	3.50	65.00	30.00	5.00	63	25	12
General Heavy Industry	3.50	3.50	3.50	59.00	28.00	13.00	92	5	3
General Heavy Industry	3.50	3.50	3.50	59.00	28.00	13.00	92	5	3
Office Park	3.50	3.50	3.50	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	3.50	3.50	3.50	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	3.50	3.50	3.50	0.00	0.00	0.00	0	0	0
Single Family Housing	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3
Single Family Housing	3.50	3.50	3.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Condo/Townhouse High Rise	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Elementary School	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
General Heavy Industry	0.485700	0.054300	0.165200	0.116500	0.025800	0.006900	0.043500	0.102100	0.000000	0.000000	0.000000	0.000000	0.000000
Office Park	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Other Non-Asphalt Surfaces	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376
Single Family Housing	0.552878	0.058674	0.179099	0.125460	0.022021	0.006385	0.011275	0.016765	0.000587	0.000264	0.022177	0.001040	0.003376

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456
NaturalGas Unmitigated	3.9386	35.2606	26.0783	0.2148		2.7212	2.7212		2.7212	2.7212		42,967.0141	42,967.0141	0.8235	0.7877	43,222.3456

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40151.9	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5403.1	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28282.4	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	387.492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52156.5	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
City 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
Condo/Townhouse High Rise	40.1519	0.4330	3.7003	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992		4,723.7490	4,723.7490	0.0905	0.0866	4,751.8199
Elementary School	13.897	0.1499	1.3625	1.1445	8.1700e-003		0.1036	0.1036		0.1036	0.1036		1,634.9356	1,634.9356	0.0313	0.0300	1,644.6512
General Heavy Industry	224.941	2.4258	22.0531	18.5246	0.1323		1.6760	1.6760		1.6760	1.6760		26,463.6863	26,463.6863	0.5072	0.4852	26,620.9468
General Heavy Industry	5.4031	0.0583	0.5297	0.4450	3.1800e-003		0.0403	0.0403		0.0403	0.0403		635.6583	635.6583	0.0122	0.0117	639.4357
Office Park	28.2824	0.3050	2.7728	2.3291	0.0166		0.2107	0.2107		0.2107	0.2107		3,327.3425	3,327.3425	0.0638	0.0610	3,347.1152
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Single Family Housing	0.387492	4.1800e-003	0.0357	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.5873	45.5873	8.7000e-004	8.4000e-004	45.8582
Single Family Housing	52.1565	0.5625	4.8066	2.0454	0.0307		0.3886	0.3886		0.3886	0.3886		6,136.0550	6,136.0550	0.1176	0.1125	6,172.5185
Total		**3.9387**	**35.2606**	**26.0783**	**0.2148**		**2.7213**	**2.7213**		**2.7213**	**2.7213**		**42,967.0141**	**42,967.0141**	**0.8235**	**0.7877**	**43,222.3456**

6.0 Area Detail

6.1 Mitigation Measures Area

Rio Vista Specific Plan - LST - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017
Unmitigated	204.9309	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791	0.0000	253.6940	253.6940	0.2443	0.0000	259.8017

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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.2088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	186.4776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2446	1.6164	140.3777	7.4500e-003		0.7791	0.7791		0.7791	0.7791		253.6940	253.6940	0.2443		259.8017
Total	**204.9309**	**1.6164**	**140.3777**	**7.4500e-003**		**0.7791**	**0.7791**		**0.7791**	**0.7791**	**0.0000**	**253.6940**	**253.6940**	**0.2443**	**0.0000**	**259.8017**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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

City of Jurupa - Rio Vista Specific Plan Project—Energy Consumption Summary

Summary of Energy Use During Construction		
Construction vehicle fuel	19,427,357	gallons (gasoline, diesel)
Construction equipment fuel	325,408	gallons (diesel)
Construction office trailer electricity	66,188	kilowatt hours
Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption	3,459,979	gallons (gasoline, diesel)
Operational natural gas consumption	133,305,155	kilo-British Thermal Units
Operational electricity consumption	73,808,873	kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed May 27, 2022

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

							Calculations	
VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
HHDT	Aggregated	Aggregated	GAS	6.027894532	477.270496	0.106770859	4.47004454	2133.4204
HHDT	Aggregated	Aggregated	DSL	16452.58246	2034696.7	266.1281332	7.64555284	15556381
LDA	Aggregated	Aggregated	GAS	617514.3579	24478836.6	721.470804	33.9290744	830544266
LDA	Aggregated	Aggregated	DSL	6395.726935	263555.991	4.809813607	54.7954686	14441674
LDT1	Aggregated	Aggregated	GAS	63219.76211	2347037.16	81.17710169	28.9125519	67858834
LDT1	Aggregated	Aggregated	DSL	24.10721025	533.616122	0.020009633	26.667961	14230.454
LDT2	Aggregated	Aggregated	GAS	191595.1165	7375145.52	266.5528329	27.6686068	204060001
LDT2	Aggregated	Aggregated	DSL	1293.932614	56317.2038	1.356033097	41.5308476	2338901.2
LHDT1	Aggregated	Aggregated	GAS	15013.79924	481213.698	43.42353163	11.0818646	5332745
LHDT1	Aggregated	Aggregated	DSL	15906.59016	516976.935	24.02819078	21.5154333	11122983
LHDT2	Aggregated	Aggregated	GAS	2255.583712	72284.4529	7.458415808	9.69166305	700556.56
LHDT2	Aggregated	Aggregated	DSL	6233.384608	201737.909	10.26708544	19.6489949	3963947.1
MHDT	Aggregated	Aggregated	GAS	1398.543137	56941.8987	10.44742239	5.4503299	310352.13
MHDT	Aggregated	Aggregated	DSL	12021.28574	757768.717	63.99894705	11.840331	8972232.4

Worker

Sum of VMT*FE (Column BI)	**1.119E+09**
Total VMT	**34521426**
Weighted Average FE	**32.422123**

Vendor

Sum of VMT*FE (Column BI)	**45961331**
Total VMT	**4122097.6**
Weighted Average FE	**11.149986**

Haul

Sum of VMT*FE (Column BI)	**15558515**
Total VMT	**2035174**
Weighted Average FE	**7.6448082**

Construction Parameters

Source: AQ/GHG Appendix, CalEEMod Output
Rio Vista Specific Plan - Riverside-South Coast County, Annual
Date: 5/26/2022 3:47 PM

Construction Schedule

Phase 1	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation	Site Preparation	1/1/2024	4/19/2024	5	80
Grading	Grading	4/20/2024	1/31/2025	5	205
Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035
Paving	Paving	11/20/2032	6/10/2033	5	145
Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145

Construction Trips and VMT

	Trips per Day		Total Trips	Construction Trip Length in Miles			Number of	Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Preparation	18	0	0	14.7	6.9	20	80	1,440	0	0	21,168	0	0	653	0	0
Grading	20	0	0	14.7	6.9	20	205	4,100	0	0	60,270	0	0	1,859	0	0
Building Construction	13,663	5,271	0	14.7	6.9	20	2,035	27,804,205	10,726,485	0	408,721,814	74,012,747	0	12,606,263	6,637,923	0
Paving	15	0	0	14.7	6.9	20	145	2,175	0	0	31,973	0	0	986	0	0
Architectural Coating	2,733	0	0	14.7	6.9	20	145	396,285	0	0	5,825,390	0	0	179,673	0	0

Total Project Construction VMT (miles)
488,673,360

Total Project Fuel Consumption (gallons)
19,427,357

Construction Equipment Fuel Calculation

Source: AQ/GHG Appendix, CalEEMod Output

Rio Vista Specific Plan - Riverside-South Coast County, Annual

Date: 5/26/2022 3:47 PM

Construction Schedule

Phase	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation	Site Preparation	1/1/2024	4/19/2024	5	80
Grading	Grading	4/20/2024	1/31/2025	5	205
Building Construction	Building Construction	2/1/2025	11/19/2032	5	2035
Paving	Paving	11/20/2032	6/10/2033	5	145
Architectural Coating	Architectural Coating	6/11/2033	12/30/2033	5	145

Construction Equipment

Phase	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Diesel Fuel Usage
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	80	189696	9,484.80
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	80	91878.4	4,593.92
Grading	Excavators	2	8	158	0.38	205	196931.2	9,846.56
Grading	Graders	1	8	187	0.41	205	125738.8	6,286.94
Grading	Rubber Tired Dozers	1	8	247	0.4	205	162032	8,101.60
Grading	Scrapers	2	8	367	0.48	205	577804.8	28,890.24
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	205	117719.2	5,885.96
Building Construction	Cranes	1	7	231	0.29	2035	954272.55	47,713.63
Building Construction	Forklifts	3	8	89	0.2	2035	869352	43,467.60
Building Construction	Generator Sets	1	8	84	0.74	2035	1011964.8	50,598.24
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	2035	1533759.15	76,687.96
Building Construction	Welders	1	8	46	0.45	2035	336996	16,849.80
Paving	Pavers	2	8	130	0.42	145	126672	6,333.60
Paving	Paving Equipment	2	8	132	0.36	145	110246.4	5,512.32
Paving	Rollers	2	8	80	0.38	145	70528	3,526.40
Architectural Coating	Air Compressors	1	6	78	0.48	145	32572.8	1,628.64

Total Construction Equipment Fuel Consumption (gallons) 325,408

Construction Office Electricity Calculation

Source: AQ/GHG Appendix, CalEEMod Output
Jurupa Valley Rio Vista SP EIR Construction Trailer - Riverside-South Coast County, Annual
Date: 5/27/2022 12:04 PM

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity		
Annual	6,617	kWh/yr
Total Over Construction	**66,188**	**kWh**

Total Construction Schedule	
Start	1/1/2024
End	12/30/2033
Total Calendar Days	3651
Years	10.00

Project Operational Fuel Calculation

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed May 27, 2022

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2033
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
HHDT	Aggregated	Aggregated	GAS	6.680616082	622.9690221	0.115630378	5.387589616	3356.301434
HHDT	Aggregated	Aggregated	DSL	17835.5842	2364890.996	259.1385548	9.12597123	21581927.19
LDA	Aggregated	Aggregated	GAS	760025.9988	27098711.75	662.8527271	40.88194954	1107848166
LDA	Aggregated	Aggregated	DSL	8990.395795	328619.849	5.057146136	64.98128394	21354139.72
LDT1	Aggregated	Aggregated	GAS	78648.97112	2683863.25	77.1350068	34.79436071	93383306.03
LDT1	Aggregated	Aggregated	DSL	9.890242649	349.1272133	0.010269396	33.9968597	11869.22889
LDT2	Aggregated	Aggregated	GAS	236670.2471	8262890.383	237.0602867	34.85565	288008415.2
LDT2	Aggregated	Aggregated	DSL	2209.752048	80679.43502	1.646221804	49.00884852	3954006.21
LHDT1	Aggregated	Aggregated	GAS	15033.59354	467477.9831	37.05465664	12.61590379	5897657.259
LHDT1	Aggregated	Aggregated	DSL	16375.73679	495607.6019	20.08467928	24.67590321	12229565.21
LHDT2	Aggregated	Aggregated	GAS	2367.29647	72094.91585	6.566498726	10.97920198	791544.6431
LHDT2	Aggregated	Aggregated	DSL	6714.999301	196488.4408	8.78016896	22.37866283	4397148.567
MCY	Aggregated	Aggregated	GAS	31762.1733	175786.9176	4.658083516	37.73803474	6633852.802
MDV	Aggregated	Aggregated	GAS	164236.7518	5419581.527	193.3140993	28.03510736	151938550
MDV	Aggregated	Aggregated	DSL	5353.397064	185961.0217	5.056374486	36.77754133	6839189.16
MH	Aggregated	Aggregated	GAS	3234.1393	25929.26279	4.277416835	6.061897588	157180.5356
MH	Aggregated	Aggregated	DSL	1818.091792	12611.20893	1.040742329	12.11751322	152816.4909
MHDT	Aggregated	Aggregated	GAS	1801.673102	68645.54145	10.99899433	6.241074356	428421.9284
MHDT	Aggregated	Aggregated	DSL	14278.53965	803924.6555	59.47084087	13.51796349	10867424.14
OBUS	Aggregated	Aggregated	GAS	451.8458729	14215.84692	2.299084826	6.183263343	87900.32518
OBUS	Aggregated	Aggregated	DSL	286.5937771	18578.23983	1.753180625	10.59687722	196871.3265
SBUS	Aggregated	Aggregated	GAS	517.3965653	16292.6501	1.735872084	9.385858703	152920.5118
SBUS	Aggregated	Aggregated	DSL	1071.468704	34253.43169	3.805435986	9.001184573	308321.4609
UBUS	Aggregated	Aggregated	GAS	175.1287779	24657.22234	3.227471669	7.639795128	188376.1271

Sum of VMT*FE **1737412927**
Total VMT **48852734.22**
Weighted Average FE (miles/gallon) **35.5643**

Total VMT
Rio Vista Specific Plan - Riverside-South Coast County, Annual
Date: 5/26/2022 3:47 PM

TABLE 1: PROJECT GENERATED TOTAL VMT

Vehicle Type	Vehicle Trips	Vehicle Trip Length	VMT
Automobile	**30,844**	**15.5**	**478,082**
Total Truck	**814**	**-**	**23,030**
LHDT	218	15.3	3,335
MHDT	159	14.2	2,258
HHDT	437	39.9	17,436
Total	**31,658**	**-**	**501,111**

	Daily VMT (miles)	Annual VMT (miles)	Fuel Consumption	
Total VMT	501,111	182,905,515	**5,142,954**	**gallons per year**

Project Operations Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output
Rio Vista Specific Plan - Riverside-South Coast County, Annual
Date: 5/26/2022 3:47 PM

kBTU/yr = kilo-British Thermal Units/year

Land Use	Natural Gas Use (kBTU/yr)
City Park	0
Condo/Townhouse High Rise	14,655,400
Elementary School	5,072,390
General Heavy Industry	1,972,130
General Heavy Industry	82,103,600
Office Park	10,323,100
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Single Family Housing	19,037,100
Single Family Housing	141,435
Total	**133,305,155 kBTU/yr**

Project Operations Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output
Rio Vista Specific Plan - Riverside-South Coast County, Annual
Date: 5/26/2022 3:47 PM

kWh/yr = kilowatt hours per year

Land Use	Electricity Use (kWh/yr)	
City Park	0	
Condo/Townhouse High Rise	4,299,840	
Elementary School	4,091,770	
General Heavy Industry	25,192,300	
General Heavy Industry	605,120	
Office Park	34,219,800	
Other Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	
Single Family Housing	39,823	
Single Family Housing	5,360,220	
Total	**73,808,873**	**kWh/yr**

Control Pathway

Dispersion Options

Titles

C:\Lakes\AERMOD View\Projects\Rio Vista\Rio Vista.isc

Dispersion Options

- [■] Regulatory Default
- [ ] Non-Default Options

Dispersion Coefficient

Rural

Output Type

- [■] Concentration
- [ ] Total Deposition (Dry & Wet)
- [ ] Dry Deposition
- [ ] Wet Deposition

Plume Depletion

- [ ] Dry Removal
- [ ] Wet Removal

Output Warnings

- [ ] No Output Warnings
- [ ] Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

OTHER - DPM

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
[■]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

- [ ] Month
- [■] Period
- [ ] Annual

Exponential Decay

Option not available

Terrain Height Options

- [ ] Flat
- [■] Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- [ ] Yes
- [■] No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Rio Vista AERMOD.err

Source Pathway - Source Inputs

AERMOD

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	IDLE1	462996.17 Truck Idling	3765467.33	348.43	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE2	462685.07 Truck Idling	3765407.60	395.55	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE3	462788.95 Truck Idling	3765516.28	375.96	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE4	462885.12 Truck Idling	3765198.89	359.08	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE5	463104.41 Truck Idling	3765352.77	348.10	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE6	463039.01 Truck Idling	3765084.43	333.58	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE7	463201.55 Truck Idling	3765308.53	344.89	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85
VOLUME	IDLE8	463302.54 Truck Idling	3765064.24	352.24	3.11	1.79E-6	5.00	Surface-Based	1.16	0.85

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: ONSITE1 (On-Site Truck Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	0.00013	Surface-Based	461358.30	3764311.22	291.43	3.11
			462079.34	3764778.74	337.88	3.11
			462185.00	3765356.00	358.12	3.11
			462377.00	3765446.00	374.30	3.11
			462743.00	3765278.00	377.50	3.11
			463111.00	3764956.00	319.66	3.11
			463404.00	3764626.00	291.63	3.11

Source Type: LINE VOLUME

Source: ONSITE10 (Entering/Leaving)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	1.92E-7	Surface-Based	462599.10	3765403.09	392.42	0.00
			462514.17	3765316.17	382.99	0.00

Source Type: LINE VOLUME

Source: ONSITE2 (On-Site Car Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	3.67E-6	Surface-Based	461358.30	3764311.22	291.43	0.00
			462079.34	3764778.74	337.88	0.00
			462185.00	3765356.00	358.12	0.00
			462377.00	3765446.00	374.30	0.00
			462743.00	3765278.00	377.50	0.00
			463111.00	3764956.00	319.66	0.00
			463404.00	3764626.00	291.63	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: ONSITE3 (Entering/Leaving Truck Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	4.96E-6	Surface-Based	462109.15	3764725.04	336.35	3.11
			462038.89	3764791.17	339.42	3.11
			462013.14	3764810.84	338.11	3.11

Source Type: LINE VOLUME
Source: ONSITE4 (Entering/Leaving Truck Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	4.96E-6	Surface-Based	462083.30	3765219.84	356.95	3.11
			462114.72	3765194.14	360.92	3.11
			462164.54	3765153.37	365.21	3.11

Source Type: LINE VOLUME
Source: ONSITE5 (Entering/Leaving Truck Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	4.96E-6	Surface-Based	462303.39	3765473.25	374.74	3.11
			462336.62	3765386.32	367.15	3.11

Source Type: LINE VOLUME
Source: ONSITE6 (Entering/Leaving Truck Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	4.96E-6	Surface-Based	462599.10	3765403.09	392.42	3.11
			462514.17	3765316.17	382.99	3.11

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: ONSITE7 (Entering/Leaving Car Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	1.92E-7	Surface-Based	462109.15	3764725.04	336.35	0.00
			462038.89	3764791.17	339.42	0.00
			462013.14	3764810.84	338.11	0.00

Source Type: LINE VOLUME
Source: ONSITE8 (Entering/Leaving Car Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	1.92E-7	Surface-Based	462083.30	3765219.84	356.95	0.00
			462114.72	3765194.14	360.92	0.00
			462164.54	3765153.37	365.21	0.00

Source Type: LINE VOLUME
Source: ONSITE9 (Entering/Leaving Car Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	1.92E-7	Surface-Based	462303.39	3765473.25	374.74	0.00
			462336.62	3765386.32	367.15	0.00

Source Type: LINE VOLUME
Source: US60 (US 60 Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.66	0.00174	Surface-Based	460051.93	3763598.63	275.14	0.00
			462197.00	3762732.00	264.47	0.00
			462779.50	3762732.00	254.96	0.00
			463888.00	3762836.00	247.41	0.00
			464293.00	3762812.00	247.75	0.00

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081868	460053.62	3763597.95	275.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081869	460057.01	3763596.58	275.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081870	460060.40	3763595.21	275.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081871	460063.80	3763593.84	275.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081872	460067.19	3763592.47	275.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081873	460070.58	3763591.10	275.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081874	460073.97	3763589.73	275.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081875	460077.36	3763588.36	275.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081876	460080.75	3763586.99	275.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081877	460084.14	3763585.62	275.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081878	460087.53	3763584.24	275.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081879	460090.93	3763582.87	275.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081880	460094.32	3763581.50	275.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081881	460097.71	3763580.13	275.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081882	460101.10	3763578.76	275.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081883	460104.49	3763577.39	275.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081884	460107.88	3763576.02	275.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081885	460111.27	3763574.65	275.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081886	460114.67	3763573.28	275.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081887	460118.06	3763571.91	275.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081888	460121.45	3763570.54	275.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081889	460124.84	3763569.17	275.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081890	460128.23	3763567.80	275.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081891	460131.62	3763566.43	275.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081892	460135.01	3763565.06	275.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081893	460138.40	3763563.69	275.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081894	460141.80	3763562.32	275.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081895	460145.19	3763560.95	275.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081896	460148.58	3763559.58	275.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081897	460151.97	3763558.21	275.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081898	460155.36	3763556.84	275.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081899	460158.75	3763555.47	276.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081900	460162.14	3763554.10	276.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081901	460165.53	3763552.73	276.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081902	460168.93	3763551.36	276.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081903	460172.32	3763549.99	276.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081904	460175.71	3763548.62	276.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081905	460179.10	3763547.25	277.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081906	460182.49	3763545.88	277.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081907	460185.88	3763544.51	277.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081908	460189.27	3763543.14	277.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081909	460192.66	3763541.77	278.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081910	460196.06	3763540.40	278.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081911	460199.45	3763539.03	278.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081912	460202.84	3763537.66	279.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081913	460206.23	3763536.29	279.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081914	460209.62	3763534.92	279.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081915	460213.01	3763533.55	280.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081916	460216.40	3763532.18	280.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081917	460219.79	3763530.81	281.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081918	460223.19	3763529.44	281.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081919	460226.58	3763528.07	281.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081920	460229.97	3763526.70	282.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081921	460233.36	3763525.33	282.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081922	460236.75	3763523.96	282.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081923	460240.14	3763522.59	283.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081924	460243.53	3763521.22	283.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081925	460246.93	3763519.85	284.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081926	460250.32	3763518.48	284.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081927	460253.71	3763517.11	284.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081928	460257.10	3763515.74	285.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081929	460260.49	3763514.37	285.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081930	460263.88	3763513.00	285.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081931	460267.27	3763511.63	286.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081932	460270.66	3763510.26	286.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081933	460274.06	3763508.89	287.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081934	460277.45	3763507.52	287.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081935	460280.84	3763506.15	288.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081936	460284.23	3763504.78	288.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081937	460287.62	3763503.41	288.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081938	460291.01	3763502.04	289.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081939	460294.40	3763500.67	289.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081940	460297.79	3763499.30	290.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081941	460301.19	3763497.93	290.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081942	460304.58	3763496.56	290.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081943	460307.97	3763495.19	291.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081944	460311.36	3763493.82	291.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081945	460314.75	3763492.45	292.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081946	460318.14	3763491.08	292.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081947	460321.53	3763489.71	293.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081948	460324.92	3763488.34	293.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081949	460328.32	3763486.97	294.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081950	460331.71	3763485.60	294.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081951	460335.10	3763484.23	294.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081952	460338.49	3763482.86	295.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081953	460341.88	3763481.49	295.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081954	460345.27	3763480.12	296.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081955	460348.66	3763478.75	296.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081956	460352.06	3763477.38	297.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081957	460355.45	3763476.01	297.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081958	460358.84	3763474.64	297.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081959	460362.23	3763473.27	298.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081960	460365.62	3763471.90	298.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081961	460369.01	3763470.53	298.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081962	460372.40	3763469.16	299.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081963	460375.79	3763467.79	299.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081964	460379.19	3763466.42	300.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081965	460382.58	3763465.05	300.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081966	460385.97	3763463.67	300.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081967	460389.36	3763462.30	300.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081968	460392.75	3763460.93	300.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081969	460396.14	3763459.56	300.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081970	460399.53	3763458.19	300.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081971	460402.92	3763456.82	300.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081972	460406.32	3763455.45	299.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081973	460409.71	3763454.08	299.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081974	460413.10	3763452.71	299.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081975	460416.49	3763451.34	298.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081976	460419.88	3763449.97	297.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081977	460423.27	3763448.60	296.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081978	460426.66	3763447.23	295.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081979	460430.05	3763445.86	294.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081980	460433.45	3763444.49	293.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081981	460436.84	3763443.12	292.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081982	460440.23	3763441.75	291.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081983	460443.62	3763440.38	290.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081984	460447.01	3763439.01	289.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081985	460450.40	3763437.64	288.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081986	460453.79	3763436.27	287.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081987	460457.19	3763434.90	286.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081988	460460.58	3763433.53	285.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081989	460463.97	3763432.16	284.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081990	460467.36	3763430.79	283.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081991	460470.75	3763429.42	282.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0081992	460474.14	3763428.05	281.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081993	460477.53	3763426.68	281.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081994	460480.92	3763425.31	280.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081995	460484.32	3763423.94	279.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081996	460487.71	3763422.57	279.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081997	460491.10	3763421.20	278.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081998	460494.49	3763419.83	278.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0081999	460497.88	3763418.46	277.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082000	460501.27	3763417.09	277.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082001	460504.66	3763415.72	276.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082002	460508.05	3763414.35	276.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082003	460511.45	3763412.98	275.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082004	460514.84	3763411.61	275.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082005	460518.23	3763410.24	275.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082006	460521.62	3763408.87	274.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082007	460525.01	3763407.50	274.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082008	460528.40	3763406.13	274.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082009	460531.79	3763404.76	273.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082010	460535.18	3763403.39	273.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082011	460538.58	3763402.02	273.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082012	460541.97	3763400.65	272.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082013	460545.36	3763399.28	272.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082014	460548.75	3763397.91	272.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082015	460552.14	3763396.54	272.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082016	460555.53	3763395.17	271.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

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US60	L0082017	460558.92	3763393.80	271.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082018	460562.31	3763392.43	271.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082019	460565.71	3763391.06	271.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082020	460569.10	3763389.69	270.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082021	460572.49	3763388.32	270.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082022	460575.88	3763386.95	270.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082023	460579.27	3763385.58	270.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082024	460582.66	3763384.21	270.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082025	460586.05	3763382.84	270.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082026	460589.45	3763381.47	270.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082027	460592.84	3763380.10	270.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082028	460596.23	3763378.73	270.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082029	460599.62	3763377.36	269.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082030	460603.01	3763375.99	269.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082031	460606.40	3763374.62	269.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082032	460609.79	3763373.25	269.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082033	460613.18	3763371.88	269.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082034	460616.58	3763370.51	269.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082035	460619.97	3763369.14	269.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082036	460623.36	3763367.77	269.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082037	460626.75	3763366.40	269.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082038	460630.14	3763365.03	269.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082039	460633.53	3763363.66	269.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082040	460636.92	3763362.29	269.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082041	460640.31	3763360.92	269.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

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US60	L0082042	460643.71	3763359.55	269.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082043	460647.10	3763358.18	269.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082044	460650.49	3763356.81	269.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082045	460653.88	3763355.44	269.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082046	460657.27	3763354.07	269.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082047	460660.66	3763352.70	268.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082048	460664.05	3763351.33	268.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082049	460667.44	3763349.96	268.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082050	460670.84	3763348.59	268.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082051	460674.23	3763347.22	268.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082052	460677.62	3763345.85	268.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082053	460681.01	3763344.48	268.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082054	460684.40	3763343.10	268.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082055	460687.79	3763341.73	268.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082056	460691.18	3763340.36	268.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082057	460694.58	3763338.99	268.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082058	460697.97	3763337.62	268.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082059	460701.36	3763336.25	268.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082060	460704.75	3763334.88	268.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082061	460708.14	3763333.51	268.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082062	460711.53	3763332.14	268.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082063	460714.92	3763330.77	268.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082064	460718.31	3763329.40	267.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082065	460721.71	3763328.03	267.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082066	460725.10	3763326.66	267.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

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US60	L0082067	460728.49	3763325.29	267.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082068	460731.88	3763323.92	267.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082069	460735.27	3763322.55	267.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082070	460738.66	3763321.18	267.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082071	460742.05	3763319.81	267.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082072	460745.44	3763318.44	267.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082073	460748.84	3763317.07	267.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082074	460752.23	3763315.70	267.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082075	460755.62	3763314.33	267.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082076	460759.01	3763312.96	267.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082077	460762.40	3763311.59	267.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082078	460765.79	3763310.22	267.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082079	460769.18	3763308.85	267.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082080	460772.57	3763307.48	267.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082081	460775.97	3763306.11	267.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082082	460779.36	3763304.74	267.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082083	460782.75	3763303.37	267.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082084	460786.14	3763302.00	266.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082085	460789.53	3763300.63	266.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082086	460792.92	3763299.26	266.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082087	460796.31	3763297.89	266.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082088	460799.70	3763296.52	266.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082089	460803.10	3763295.15	266.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082090	460806.49	3763293.78	266.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082091	460809.88	3763292.41	266.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

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US60	L0082092	460813.27	3763291.04	266.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082093	460816.66	3763289.67	266.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082094	460820.05	3763288.30	266.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082095	460823.44	3763286.93	266.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082096	460826.84	3763285.56	266.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082097	460830.23	3763284.19	266.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082098	460833.62	3763282.82	266.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082099	460837.01	3763281.45	266.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082100	460840.40	3763280.08	266.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082101	460843.79	3763278.71	266.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082102	460847.18	3763277.34	266.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082103	460850.57	3763275.97	265.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082104	460853.97	3763274.60	265.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082105	460857.36	3763273.23	265.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082106	460860.75	3763271.86	265.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082107	460864.14	3763270.49	265.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082108	460867.53	3763269.12	265.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082109	460870.92	3763267.75	265.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082110	460874.31	3763266.38	265.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082111	460877.70	3763265.01	265.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082112	460881.10	3763263.64	265.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082113	460884.49	3763262.27	265.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082114	460887.88	3763260.90	265.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082115	460891.27	3763259.53	265.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082116	460894.66	3763258.16	265.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

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US60	L0082117	460898.05	3763256.79	265.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082118	460901.44	3763255.42	265.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082119	460904.83	3763254.05	265.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082120	460908.23	3763252.68	265.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082121	460911.62	3763251.31	265.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082122	460915.01	3763249.94	265.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082123	460918.40	3763248.57	265.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082124	460921.79	3763247.20	265.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082125	460925.18	3763245.83	265.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082126	460928.57	3763244.46	265.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082127	460931.97	3763243.09	265.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082128	460935.36	3763241.72	265.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082129	460938.75	3763240.35	265.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082130	460942.14	3763238.98	264.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082131	460945.53	3763237.61	264.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082132	460948.92	3763236.24	264.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082133	460952.31	3763234.87	264.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082134	460955.70	3763233.50	264.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082135	460959.10	3763232.13	264.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082136	460962.49	3763230.76	264.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082137	460965.88	3763229.39	264.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082138	460969.27	3763228.02	264.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082139	460972.66	3763226.65	264.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082140	460976.05	3763225.28	264.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082141	460979.44	3763223.91	264.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082142	460982.83	3763222.53	264.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082143	460986.23	3763221.16	264.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082144	460989.62	3763219.79	264.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082145	460993.01	3763218.42	264.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082146	460996.40	3763217.05	264.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082147	460999.79	3763215.68	264.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082148	461003.18	3763214.31	264.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082149	461006.57	3763212.94	264.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082150	461009.96	3763211.57	264.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082151	461013.36	3763210.20	264.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082152	461016.75	3763208.83	264.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082153	461020.14	3763207.46	264.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082154	461023.53	3763206.09	263.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082155	461026.92	3763204.72	263.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082156	461030.31	3763203.35	263.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082157	461033.70	3763201.98	263.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082158	461037.10	3763200.61	263.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082159	461040.49	3763199.24	263.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082160	461043.88	3763197.87	263.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082161	461047.27	3763196.50	263.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082162	461050.66	3763195.13	263.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082163	461054.05	3763193.76	263.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082164	461057.44	3763192.39	263.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082165	461060.83	3763191.02	263.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082166	461064.23	3763189.65	263.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082167	461067.62	3763188.28	263.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082168	461071.01	3763186.91	263.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082169	461074.40	3763185.54	263.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082170	461077.79	3763184.17	263.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082171	461081.18	3763182.80	263.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082172	461084.57	3763181.43	263.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082173	461087.96	3763180.06	263.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082174	461091.36	3763178.69	263.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082175	461094.75	3763177.32	263.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082176	461098.14	3763175.95	263.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082177	461101.53	3763174.58	263.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082178	461104.92	3763173.21	263.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082179	461108.31	3763171.84	263.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082180	461111.70	3763170.47	263.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082181	461115.09	3763169.10	263.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082182	461118.49	3763167.73	263.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082183	461121.88	3763166.36	263.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082184	461125.27	3763164.99	263.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082185	461128.66	3763163.62	263.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082186	461132.05	3763162.25	263.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082187	461135.44	3763160.88	263.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082188	461138.83	3763159.51	263.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082189	461142.22	3763158.14	263.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082190	461145.62	3763156.77	263.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082191	461149.01	3763155.40	263.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082192	461152.40	3763154.03	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082193	461155.79	3763152.66	262.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082194	461159.18	3763151.29	262.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082195	461162.57	3763149.92	262.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082196	461165.96	3763148.55	262.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082197	461169.36	3763147.18	262.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082198	461172.75	3763145.81	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082199	461176.14	3763144.44	262.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082200	461179.53	3763143.07	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082201	461182.92	3763141.70	262.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082202	461186.31	3763140.33	262.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082203	461189.70	3763138.96	262.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082204	461193.09	3763137.59	262.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082205	461196.49	3763136.22	262.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082206	461199.88	3763134.85	262.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082207	461203.27	3763133.48	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082208	461206.66	3763132.11	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082209	461210.05	3763130.74	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082210	461213.44	3763129.37	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082211	461216.83	3763128.00	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082212	461220.22	3763126.63	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082213	461223.62	3763125.26	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082214	461227.01	3763123.89	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082215	461230.40	3763122.52	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082216	461233.79	3763121.15	262.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082217	461237.18	3763119.78	262.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082218	461240.57	3763118.41	262.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082219	461243.96	3763117.04	262.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082220	461247.35	3763115.67	262.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082221	461250.75	3763114.30	263.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082222	461254.14	3763112.93	263.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082223	461257.53	3763111.56	263.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082224	461260.92	3763110.19	263.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082225	461264.31	3763108.82	263.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082226	461267.70	3763107.45	263.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082227	461271.09	3763106.08	263.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082228	461274.49	3763104.71	263.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082229	461277.88	3763103.34	263.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082230	461281.27	3763101.96	263.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082231	461284.66	3763100.59	263.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082232	461288.05	3763099.22	263.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082233	461291.44	3763097.85	263.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082234	461294.83	3763096.48	263.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082235	461298.22	3763095.11	263.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082236	461301.62	3763093.74	263.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082237	461305.01	3763092.37	263.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082238	461308.40	3763091.00	263.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082239	461311.79	3763089.63	263.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082240	461315.18	3763088.26	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082241	461318.57	3763086.89	263.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082242	461321.96	3763085.52	262.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082243	461325.35	3763084.15	262.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082244	461328.75	3763082.78	262.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082245	461332.14	3763081.41	262.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082246	461335.53	3763080.04	262.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082247	461338.92	3763078.67	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082248	461342.31	3763077.30	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082249	461345.70	3763075.93	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082250	461349.09	3763074.56	262.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082251	461352.48	3763073.19	262.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082252	461355.88	3763071.82	262.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082253	461359.27	3763070.45	262.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082254	461362.66	3763069.08	262.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082255	461366.05	3763067.71	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082256	461369.44	3763066.34	262.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082257	461372.83	3763064.97	262.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082258	461376.22	3763063.60	262.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082259	461379.62	3763062.23	262.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082260	461383.01	3763060.86	262.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082261	461386.40	3763059.49	262.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082262	461389.79	3763058.12	262.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082263	461393.18	3763056.75	262.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082264	461396.57	3763055.38	262.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082265	461399.96	3763054.01	262.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082266	461403.35	3763052.64	262.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082267	461406.75	3763051.27	262.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082268	461410.14	3763049.90	262.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082269	461413.53	3763048.53	262.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082270	461416.92	3763047.16	262.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082271	461420.31	3763045.79	262.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082272	461423.70	3763044.42	262.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082273	461427.09	3763043.05	262.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082274	461430.48	3763041.68	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082275	461433.88	3763040.31	262.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082276	461437.27	3763038.94	262.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082277	461440.66	3763037.57	262.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082278	461444.05	3763036.20	262.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082279	461447.44	3763034.83	262.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082280	461450.83	3763033.46	262.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082281	461454.22	3763032.09	262.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082282	461457.61	3763030.72	263.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082283	461461.01	3763029.35	263.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082284	461464.40	3763027.98	263.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082285	461467.79	3763026.61	263.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082286	461471.18	3763025.24	263.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082287	461474.57	3763023.87	263.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082288	461477.96	3763022.50	263.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082289	461481.35	3763021.13	263.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082290	461484.74	3763019.76	263.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082291	461488.14	3763018.39	263.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082292	461491.53	3763017.02	263.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082293	461494.92	3763015.65	263.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082294	461498.31	3763014.28	264.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082295	461501.70	3763012.91	264.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082296	461505.09	3763011.54	264.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082297	461508.48	3763010.17	264.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082298	461511.88	3763008.80	264.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082299	461515.27	3763007.43	264.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082300	461518.66	3763006.06	264.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082301	461522.05	3763004.69	264.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082302	461525.44	3763003.32	264.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082303	461528.83	3763001.95	264.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082304	461532.22	3763000.58	264.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082305	461535.61	3762999.21	264.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082306	461539.01	3762997.84	264.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082307	461542.40	3762996.47	264.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082308	461545.79	3762995.10	265.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082309	461549.18	3762993.73	265.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082310	461552.57	3762992.36	265.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082311	461555.96	3762990.99	265.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082312	461559.35	3762989.62	265.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082313	461562.74	3762988.25	265.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082314	461566.14	3762986.88	265.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082315	461569.53	3762985.51	265.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082316	461572.92	3762984.14	265.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082317	461576.31	3762982.77	265.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082318	461579.70	3762981.39	265.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082319	461583.09	3762980.02	265.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082320	461586.48	3762978.65	265.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082321	461589.87	3762977.28	265.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082322	461593.27	3762975.91	265.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082323	461596.66	3762974.54	265.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082324	461600.05	3762973.17	265.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082325	461603.44	3762971.80	265.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082326	461606.83	3762970.43	265.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082327	461610.22	3762969.06	265.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082328	461613.61	3762967.69	266.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082329	461617.01	3762966.32	266.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082330	461620.40	3762964.95	266.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082331	461623.79	3762963.58	266.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082332	461627.18	3762962.21	266.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082333	461630.57	3762960.84	266.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082334	461633.96	3762959.47	266.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082335	461637.35	3762958.10	266.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082336	461640.74	3762956.73	266.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082337	461644.14	3762955.36	266.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082338	461647.53	3762953.99	266.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082339	461650.92	3762952.62	266.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082340	461654.31	3762951.25	266.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082341	461657.70	3762949.88	266.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082342	461661.09	3762948.51	266.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082343	461664.48	3762947.14	266.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082344	461667.87	3762945.77	266.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082345	461671.27	3762944.40	266.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082346	461674.66	3762943.03	266.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082347	461678.05	3762941.66	266.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082348	461681.44	3762940.29	266.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082349	461684.83	3762938.92	266.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082350	461688.22	3762937.55	266.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082351	461691.61	3762936.18	266.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082352	461695.00	3762934.81	266.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082353	461698.40	3762933.44	266.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082354	461701.79	3762932.07	266.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082355	461705.18	3762930.70	266.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082356	461708.57	3762929.33	266.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082357	461711.96	3762927.96	266.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082358	461715.35	3762926.59	266.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082359	461718.74	3762925.22	266.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082360	461722.14	3762923.85	266.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082361	461725.53	3762922.48	266.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082362	461728.92	3762921.11	266.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082363	461732.31	3762919.74	266.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082364	461735.70	3762918.37	266.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082365	461739.09	3762917.00	266.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082366	461742.48	3762915.63	266.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082367	461745.87	3762914.26	266.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082368	461749.27	3762912.89	266.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082369	461752.66	3762911.52	266.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082370	461756.05	3762910.15	266.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082371	461759.44	3762908.78	266.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082372	461762.83	3762907.41	266.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082373	461766.22	3762906.04	266.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082374	461769.61	3762904.67	266.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082375	461773.00	3762903.30	266.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082376	461776.40	3762901.93	266.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082377	461779.79	3762900.56	266.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082378	461783.18	3762899.19	266.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082379	461786.57	3762897.82	266.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082380	461789.96	3762896.45	266.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082381	461793.35	3762895.08	266.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082382	461796.74	3762893.71	266.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082383	461800.13	3762892.34	266.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082384	461803.53	3762890.97	266.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082385	461806.92	3762889.60	266.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082386	461810.31	3762888.23	266.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082387	461813.70	3762886.86	266.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082388	461817.09	3762885.49	266.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082389	461820.48	3762884.12	266.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082390	461823.87	3762882.75	266.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082391	461827.26	3762881.38	266.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082392	461830.66	3762880.01	266.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082393	461834.05	3762878.64	266.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082394	461837.44	3762877.27	266.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082395	461840.83	3762875.90	266.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082396	461844.22	3762874.53	266.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082397	461847.61	3762873.16	266.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082398	461851.00	3762871.79	266.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082399	461854.40	3762870.42	266.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082400	461857.79	3762869.05	266.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082401	461861.18	3762867.68	266.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082402	461864.57	3762866.31	266.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082403	461867.96	3762864.94	266.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082404	461871.35	3762863.57	266.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082405	461874.74	3762862.20	266.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082406	461878.13	3762860.82	266.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082407	461881.53	3762859.45	266.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082408	461884.92	3762858.08	266.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082409	461888.31	3762856.71	266.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082410	461891.70	3762855.34	266.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082411	461895.09	3762853.97	266.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082412	461898.48	3762852.60	266.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082413	461901.87	3762851.23	266.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082414	461905.26	3762849.86	266.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082415	461908.66	3762848.49	265.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082416	461912.05	3762847.12	265.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082417	461915.44	3762845.75	265.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082418	461918.83	3762844.38	265.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082419	461922.22	3762843.01	265.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082420	461925.61	3762841.64	264.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082421	461929.00	3762840.27	264.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082422	461932.39	3762838.90	264.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082423	461935.79	3762837.53	264.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082424	461939.18	3762836.16	264.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082425	461942.57	3762834.79	264.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082426	461945.96	3762833.42	264.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082427	461949.35	3762832.05	264.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082428	461952.74	3762830.68	264.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082429	461956.13	3762829.31	264.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082430	461959.53	3762827.94	264.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082431	461962.92	3762826.57	264.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082432	461966.31	3762825.20	264.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082433	461969.70	3762823.83	264.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082434	461973.09	3762822.46	264.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082435	461976.48	3762821.09	264.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082436	461979.87	3762819.72	264.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082437	461983.26	3762818.35	264.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082438	461986.66	3762816.98	263.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082439	461990.05	3762815.61	263.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082440	461993.44	3762814.24	263.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082441	461996.83	3762812.87	263.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082442	462000.22	3762811.50	263.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082443	462003.61	3762810.13	263.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082444	462007.00	3762808.76	263.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082445	462010.39	3762807.39	263.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082446	462013.79	3762806.02	263.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082447	462017.18	3762804.65	263.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082448	462020.57	3762803.28	263.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082449	462023.96	3762801.91	263.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082450	462027.35	3762800.54	263.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082451	462030.74	3762799.17	263.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082452	462034.13	3762797.80	263.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082453	462037.52	3762796.43	263.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082454	462040.92	3762795.06	263.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082455	462044.31	3762793.69	263.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082456	462047.70	3762792.32	263.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082457	462051.09	3762790.95	263.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082458	462054.48	3762789.58	263.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082459	462057.87	3762788.21	263.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082460	462061.26	3762786.84	263.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082461	462064.65	3762785.47	263.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082462	462068.05	3762784.10	263.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082463	462071.44	3762782.73	263.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082464	462074.83	3762781.36	263.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082465	462078.22	3762779.99	263.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082466	462081.61	3762778.62	263.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082467	462085.00	3762777.25	263.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082468	462088.39	3762775.88	263.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082469	462091.79	3762774.51	263.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082470	462095.18	3762773.14	263.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082471	462098.57	3762771.77	263.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082472	462101.96	3762770.40	263.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082473	462105.35	3762769.03	263.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082474	462108.74	3762767.66	263.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082475	462112.13	3762766.29	264.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082476	462115.52	3762764.92	264.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082477	462118.92	3762763.55	264.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082478	462122.31	3762762.18	264.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082479	462125.70	3762760.81	264.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082480	462129.09	3762759.44	264.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082481	462132.48	3762758.07	264.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082482	462135.87	3762756.70	264.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082483	462139.26	3762755.33	264.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082484	462142.65	3762753.96	264.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082485	462146.05	3762752.59	264.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082486	462149.44	3762751.22	264.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082487	462152.83	3762749.85	264.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082488	462156.22	3762748.48	264.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082489	462159.61	3762747.11	264.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082490	462163.00	3762745.74	264.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082491	462166.39	3762744.37	264.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082492	462169.78	3762743.00	264.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082493	462173.18	3762741.63	264.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082494	462176.57	3762740.25	264.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082495	462179.96	3762738.88	264.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082496	462183.35	3762737.51	264.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082497	462186.74	3762736.14	264.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082498	462190.13	3762734.77	264.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082499	462193.52	3762733.40	264.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082500	462196.92	3762732.03	263.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082501	462200.57	3762732.00	264.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082502	462204.22	3762732.00	264.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082503	462207.88	3762732.00	264.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082504	462211.54	3762732.00	264.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082505	462215.20	3762732.00	264.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082506	462218.85	3762732.00	264.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082507	462222.51	3762732.00	264.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082508	462226.17	3762732.00	264.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082509	462229.83	3762732.00	264.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082510	462233.48	3762732.00	264.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082511	462237.14	3762732.00	264.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082512	462240.80	3762732.00	264.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082513	462244.46	3762732.00	264.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082514	462248.11	3762732.00	264.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082515	462251.77	3762732.00	264.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082516	462255.43	3762732.00	264.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082517	462259.09	3762732.00	264.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082518	462262.75	3762732.00	264.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082519	462266.40	3762732.00	264.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082520	462270.06	3762732.00	264.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082521	462273.72	3762732.00	264.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082522	462277.38	3762732.00	265.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082523	462281.03	3762732.00	265.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082524	462284.69	3762732.00	265.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082525	462288.35	3762732.00	265.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082526	462292.01	3762732.00	265.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082527	462295.66	3762732.00	265.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082528	462299.32	3762732.00	265.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082529	462302.98	3762732.00	265.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082530	462306.64	3762732.00	265.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082531	462310.29	3762732.00	265.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082532	462313.95	3762732.00	265.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082533	462317.61	3762732.00	265.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082534	462321.27	3762732.00	265.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082535	462324.92	3762732.00	265.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082536	462328.58	3762732.00	265.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082537	462332.24	3762732.00	265.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082538	462335.90	3762732.00	265.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082539	462339.55	3762732.00	265.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082540	462343.21	3762732.00	265.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082541	462346.87	3762732.00	265.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082542	462350.53	3762732.00	265.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082543	462354.19	3762732.00	265.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082544	462357.84	3762732.00	265.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082545	462361.50	3762732.00	265.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082546	462365.16	3762732.00	265.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082547	462368.82	3762732.00	264.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082548	462372.47	3762732.00	264.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082549	462376.13	3762732.00	264.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082550	462379.79	3762732.00	264.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082551	462383.45	3762732.00	264.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082552	462387.10	3762732.00	264.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082553	462390.76	3762732.00	263.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082554	462394.42	3762732.00	263.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082555	462398.08	3762732.00	263.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082556	462401.73	3762732.00	263.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082557	462405.39	3762732.00	263.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082558	462409.05	3762732.00	262.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082559	462412.71	3762732.00	262.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082560	462416.36	3762732.00	262.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082561	462420.02	3762732.00	262.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082562	462423.68	3762732.00	262.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082563	462427.34	3762732.00	262.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082564	462430.99	3762732.00	261.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082565	462434.65	3762732.00	261.76	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082566	462438.31	3762732.00	261.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082567	462441.97	3762732.00	261.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082568	462445.63	3762732.00	261.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082569	462449.28	3762732.00	261.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082570	462452.94	3762732.00	261.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082571	462456.60	3762732.00	260.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082572	462460.26	3762732.00	260.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082573	462463.91	3762732.00	260.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082574	462467.57	3762732.00	260.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082575	462471.23	3762732.00	260.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082576	462474.89	3762732.00	260.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082577	462478.54	3762732.00	259.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082578	462482.20	3762732.00	259.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082579	462485.86	3762732.00	259.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082580	462489.52	3762732.00	259.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082581	462493.17	3762732.00	259.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082582	462496.83	3762732.00	259.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082583	462500.49	3762732.00	259.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082584	462504.15	3762732.00	259.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082585	462507.80	3762732.00	259.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082586	462511.46	3762732.00	258.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082587	462515.12	3762732.00	258.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082588	462518.78	3762732.00	258.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082589	462522.43	3762732.00	258.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082590	462526.09	3762732.00	258.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082591	462529.75	3762732.00	258.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082592	462533.41	3762732.00	258.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082593	462537.07	3762732.00	258.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082594	462540.72	3762732.00	258.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082595	462544.38	3762732.00	258.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082596	462548.04	3762732.00	258.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082597	462551.70	3762732.00	258.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082598	462555.35	3762732.00	258.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082599	462559.01	3762732.00	258.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082600	462562.67	3762732.00	258.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082601	462566.33	3762732.00	258.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082602	462569.98	3762732.00	258.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082603	462573.64	3762732.00	257.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082604	462577.30	3762732.00	257.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082605	462580.96	3762732.00	257.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082606	462584.61	3762732.00	257.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082607	462588.27	3762732.00	257.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082608	462591.93	3762732.00	257.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082609	462595.59	3762732.00	257.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082610	462599.24	3762732.00	257.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082611	462602.90	3762732.00	257.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082612	462606.56	3762732.00	257.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082613	462610.22	3762732.00	257.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082614	462613.87	3762732.00	257.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082615	462617.53	3762732.00	257.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082616	462621.19	3762732.00	257.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082617	462624.85	3762732.00	257.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082618	462628.51	3762732.00	257.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082619	462632.16	3762732.00	257.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082620	462635.82	3762732.00	257.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082621	462639.48	3762732.00	257.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082622	462643.14	3762732.00	257.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082623	462646.79	3762732.00	257.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082624	462650.45	3762732.00	257.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082625	462654.11	3762732.00	257.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082626	462657.77	3762732.00	257.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082627	462661.42	3762732.00	257.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082628	462665.08	3762732.00	257.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082629	462668.74	3762732.00	257.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082630	462672.40	3762732.00	257.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082631	462676.05	3762732.00	256.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082632	462679.71	3762732.00	256.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082633	462683.37	3762732.00	256.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082634	462687.03	3762732.00	256.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082635	462690.68	3762732.00	256.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082636	462694.34	3762732.00	256.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082637	462698.00	3762732.00	256.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082638	462701.66	3762732.00	256.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082639	462705.31	3762732.00	256.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082640	462708.97	3762732.00	256.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082641	462712.63	3762732.00	256.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082642	462716.29	3762732.00	256.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082643	462719.95	3762732.00	256.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082644	462723.60	3762732.00	256.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082645	462727.26	3762732.00	256.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082646	462730.92	3762732.00	256.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082647	462734.58	3762732.00	256.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082648	462738.23	3762732.00	256.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082649	462741.89	3762732.00	256.06	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082650	462745.55	3762732.00	255.95	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082651	462749.21	3762732.00	255.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082652	462752.86	3762732.00	255.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082653	462756.52	3762732.00	255.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082654	462760.18	3762732.00	255.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082655	462763.84	3762732.00	255.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082656	462767.49	3762732.00	255.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082657	462771.15	3762732.00	255.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082658	462774.81	3762732.00	255.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082659	462778.47	3762732.00	255.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082660	462782.11	3762732.25	254.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082661	462785.75	3762732.59	254.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082662	462789.40	3762732.93	254.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082663	462793.04	3762733.27	254.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082664	462796.68	3762733.61	254.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082665	462800.32	3762733.95	254.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082666	462803.96	3762734.30	254.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082667	462807.60	3762734.64	254.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082668	462811.25	3762734.98	253.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082669	462814.89	3762735.32	253.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082670	462818.53	3762735.66	253.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082671	462822.17	3762736.00	253.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082672	462825.81	3762736.35	253.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082673	462829.45	3762736.69	253.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082674	462833.10	3762737.03	253.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082675	462836.74	3762737.37	253.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082676	462840.38	3762737.71	253.16	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082677	462844.02	3762738.05	253.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082678	462847.66	3762738.39	253.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082679	462851.30	3762738.74	252.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082680	462854.95	3762739.08	252.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082681	462858.59	3762739.42	252.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082682	462862.23	3762739.76	252.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082683	462865.87	3762740.10	252.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082684	462869.51	3762740.44	252.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082685	462873.15	3762740.79	252.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082686	462876.79	3762741.13	252.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082687	462880.44	3762741.47	252.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082688	462884.08	3762741.81	252.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082689	462887.72	3762742.15	252.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082690	462891.36	3762742.49	252.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082691	462895.00	3762742.84	252.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082692	462898.64	3762743.18	252.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082693	462902.29	3762743.52	252.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082694	462905.93	3762743.86	252.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082695	462909.57	3762744.20	252.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082696	462913.21	3762744.54	252.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082697	462916.85	3762744.89	252.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082698	462920.49	3762745.23	252.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082699	462924.14	3762745.57	252.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082700	462927.78	3762745.91	252.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082701	462931.42	3762746.25	252.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082702	462935.06	3762746.59	252.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082703	462938.70	3762746.94	252.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082704	462942.34	3762747.28	252.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082705	462945.99	3762747.62	252.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082706	462949.63	3762747.96	252.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082707	462953.27	3762748.30	252.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082708	462956.91	3762748.64	252.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082709	462960.55	3762748.99	252.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082710	462964.19	3762749.33	252.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082711	462967.84	3762749.67	252.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082712	462971.48	3762750.01	252.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082713	462975.12	3762750.35	252.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082714	462978.76	3762750.69	252.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082715	462982.40	3762751.04	252.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082716	462986.04	3762751.38	252.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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US60	L0082717	462989.68	3762751.72	252.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082718	462993.33	3762752.06	252.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082719	462996.97	3762752.40	252.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082720	463000.61	3762752.74	252.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082721	463004.25	3762753.09	252.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082722	463007.89	3762753.43	252.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082723	463011.53	3762753.77	252.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082724	463015.18	3762754.11	252.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082725	463018.82	3762754.45	252.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082726	463022.46	3762754.79	252.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082727	463026.10	3762755.14	252.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082728	463029.74	3762755.48	252.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082729	463033.38	3762755.82	252.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082730	463037.03	3762756.16	252.97	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082731	463040.67	3762756.50	252.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082732	463044.31	3762756.84	253.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082733	463047.95	3762757.19	253.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082734	463051.59	3762757.53	253.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082735	463055.23	3762757.87	253.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082736	463058.88	3762758.21	253.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082737	463062.52	3762758.55	253.12	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082738	463066.16	3762758.89	253.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082739	463069.80	3762759.24	253.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082740	463073.44	3762759.58	253.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082741	463077.08	3762759.92	253.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082742	463080.72	3762760.26	253.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082743	463084.37	3762760.60	253.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082744	463088.01	3762760.94	253.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082745	463091.65	3762761.29	253.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082746	463095.29	3762761.63	253.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082747	463098.93	3762761.97	253.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082748	463102.57	3762762.31	253.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082749	463106.22	3762762.65	253.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082750	463109.86	3762762.99	253.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082751	463113.50	3762763.34	253.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082752	463117.14	3762763.68	253.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082753	463120.78	3762764.02	253.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082754	463124.42	3762764.36	253.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082755	463128.07	3762764.70	253.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082756	463131.71	3762765.04	253.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082757	463135.35	3762765.39	253.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082758	463138.99	3762765.73	253.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082759	463142.63	3762766.07	253.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082760	463146.27	3762766.41	252.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082761	463149.92	3762766.75	252.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082762	463153.56	3762767.09	252.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082763	463157.20	3762767.44	252.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082764	463160.84	3762767.78	252.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082765	463164.48	3762768.12	252.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082766	463168.12	3762768.46	252.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082767	463171.77	3762768.80	252.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082768	463175.41	3762769.14	252.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082769	463179.05	3762769.49	252.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082770	463182.69	3762769.83	252.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082771	463186.33	3762770.17	252.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082772	463189.97	3762770.51	252.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082773	463193.61	3762770.85	252.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082774	463197.26	3762771.19	252.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082775	463200.90	3762771.54	252.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082776	463204.54	3762771.88	252.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082777	463208.18	3762772.22	251.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082778	463211.82	3762772.56	251.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082779	463215.46	3762772.90	251.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082780	463219.11	3762773.24	251.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082781	463222.75	3762773.59	251.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082782	463226.39	3762773.93	251.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082783	463230.03	3762774.27	251.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082784	463233.67	3762774.61	251.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082785	463237.31	3762774.95	251.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082786	463240.96	3762775.29	251.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082787	463244.60	3762775.64	251.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082788	463248.24	3762775.98	251.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082789	463251.88	3762776.32	251.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082790	463255.52	3762776.66	251.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082791	463259.16	3762777.00	251.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082792	463262.81	3762777.34	251.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082793	463266.45	3762777.69	251.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082794	463270.09	3762778.03	251.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082795	463273.73	3762778.37	251.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082796	463277.37	3762778.71	251.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082797	463281.01	3762779.05	251.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082798	463284.65	3762779.39	251.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082799	463288.30	3762779.74	251.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082800	463291.94	3762780.08	251.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082801	463295.58	3762780.42	251.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082802	463299.22	3762780.76	251.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082803	463302.86	3762781.10	251.40	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082804	463306.50	3762781.44	251.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082805	463310.15	3762781.79	251.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082806	463313.79	3762782.13	251.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082807	463317.43	3762782.47	251.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082808	463321.07	3762782.81	251.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082809	463324.71	3762783.15	251.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082810	463328.35	3762783.49	251.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082811	463332.00	3762783.84	251.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082812	463335.64	3762784.18	251.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082813	463339.28	3762784.52	251.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082814	463342.92	3762784.86	251.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082815	463346.56	3762785.20	251.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082816	463350.20	3762785.54	251.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082817	463353.85	3762785.89	251.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082818	463357.49	3762786.23	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082819	463361.13	3762786.57	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082820	463364.77	3762786.91	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082821	463368.41	3762787.25	251.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082822	463372.05	3762787.59	251.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082823	463375.70	3762787.94	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082824	463379.34	3762788.28	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082825	463382.98	3762788.62	251.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082826	463386.62	3762788.96	251.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082827	463390.26	3762789.30	251.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082828	463393.90	3762789.64	251.33	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082829	463397.54	3762789.99	251.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082830	463401.19	3762790.33	251.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082831	463404.83	3762790.67	251.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082832	463408.47	3762791.01	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082833	463412.11	3762791.35	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082834	463415.75	3762791.69	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082835	463419.39	3762792.04	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082836	463423.04	3762792.38	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082837	463426.68	3762792.72	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082838	463430.32	3762793.06	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082839	463433.96	3762793.40	251.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082840	463437.60	3762793.74	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082841	463441.24	3762794.09	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082842	463444.89	3762794.43	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082843	463448.53	3762794.77	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082844	463452.17	3762795.11	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082845	463455.81	3762795.45	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082846	463459.45	3762795.79	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082847	463463.09	3762796.14	251.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082848	463466.74	3762796.48	251.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082849	463470.38	3762796.82	251.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082850	463474.02	3762797.16	251.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082851	463477.66	3762797.50	251.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082852	463481.30	3762797.84	251.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082853	463484.94	3762798.19	251.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082854	463488.58	3762798.53	251.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082855	463492.23	3762798.87	251.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082856	463495.87	3762799.21	251.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082857	463499.51	3762799.55	251.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082858	463503.15	3762799.89	251.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082859	463506.79	3762800.23	251.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082860	463510.43	3762800.58	251.84	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082861	463514.08	3762800.92	251.89	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082862	463517.72	3762801.26	251.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082863	463521.36	3762801.60	251.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082864	463525.00	3762801.94	252.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082865	463528.64	3762802.28	252.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082866	463532.28	3762802.63	252.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082867	463535.93	3762802.97	252.19	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082868	463539.57	3762803.31	252.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082869	463543.21	3762803.65	252.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082870	463546.85	3762803.99	252.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082871	463550.49	3762804.33	252.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082872	463554.13	3762804.68	252.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082873	463557.78	3762805.02	252.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082874	463561.42	3762805.36	252.46	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082875	463565.06	3762805.70	252.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082876	463568.70	3762806.04	252.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082877	463572.34	3762806.38	252.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082878	463575.98	3762806.73	252.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082879	463579.63	3762807.07	252.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082880	463583.27	3762807.41	252.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082881	463586.91	3762807.75	252.77	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082882	463590.55	3762808.09	252.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082883	463594.19	3762808.43	252.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082884	463597.83	3762808.78	252.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082885	463601.47	3762809.12	252.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082886	463605.12	3762809.46	253.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082887	463608.76	3762809.80	253.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082888	463612.40	3762810.14	253.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082889	463616.04	3762810.48	253.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082890	463619.68	3762810.83	253.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082891	463623.32	3762811.17	253.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082892	463626.97	3762811.51	253.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082893	463630.61	3762811.85	253.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082894	463634.25	3762812.19	253.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082895	463637.89	3762812.53	253.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082896	463641.53	3762812.88	253.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082897	463645.17	3762813.22	253.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082898	463648.82	3762813.56	253.66	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082899	463652.46	3762813.90	253.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082900	463656.10	3762814.24	253.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082901	463659.74	3762814.58	253.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082902	463663.38	3762814.93	253.82	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082903	463667.02	3762815.27	253.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082904	463670.67	3762815.61	253.91	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082905	463674.31	3762815.95	253.96	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082906	463677.95	3762816.29	254.00	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082907	463681.59	3762816.63	254.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082908	463685.23	3762816.98	254.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082909	463688.87	3762817.32	254.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082910	463692.51	3762817.66	254.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082911	463696.16	3762818.00	254.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082912	463699.80	3762818.34	254.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082913	463703.44	3762818.68	254.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082914	463707.08	3762819.03	254.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082915	463710.72	3762819.37	254.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082916	463714.36	3762819.71	254.38	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082917	463718.01	3762820.05	254.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082918	463721.65	3762820.39	254.44	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082919	463725.29	3762820.73	254.47	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082920	463728.93	3762821.08	254.50	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082921	463732.57	3762821.42	254.53	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082922	463736.21	3762821.76	254.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082923	463739.86	3762822.10	254.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082924	463743.50	3762822.44	254.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082925	463747.14	3762822.78	254.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082926	463750.78	3762823.13	254.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082927	463754.42	3762823.47	254.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082928	463758.06	3762823.81	254.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082929	463761.71	3762824.15	254.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082930	463765.35	3762824.49	254.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082931	463768.99	3762824.83	254.72	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082932	463772.63	3762825.18	254.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082933	463776.27	3762825.52	254.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082934	463779.91	3762825.86	254.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082935	463783.56	3762826.20	254.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082936	463787.20	3762826.54	254.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082937	463790.84	3762826.88	253.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082938	463794.48	3762827.23	253.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082939	463798.12	3762827.57	253.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082940	463801.76	3762827.91	253.20	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082941	463805.40	3762828.25	252.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0082942	463809.05	3762828.59	252.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082943	463812.69	3762828.93	252.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082944	463816.33	3762829.28	251.90	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082945	463819.97	3762829.62	251.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082946	463823.61	3762829.96	251.25	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082947	463827.25	3762830.30	250.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082948	463830.90	3762830.64	250.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082949	463834.54	3762830.98	250.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082950	463838.18	3762831.33	249.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082951	463841.82	3762831.67	249.60	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082952	463845.46	3762832.01	249.26	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082953	463849.10	3762832.35	249.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082954	463852.75	3762832.69	248.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082955	463856.39	3762833.03	248.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082956	463860.03	3762833.38	248.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082957	463863.67	3762833.72	248.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082958	463867.31	3762834.06	247.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082959	463870.95	3762834.40	247.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082960	463874.60	3762834.74	247.70	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082961	463878.24	3762835.08	247.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082962	463881.88	3762835.43	247.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082963	463885.52	3762835.77	247.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082964	463889.16	3762835.93	247.65	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082965	463892.82	3762835.71	247.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082966	463896.47	3762835.50	247.58	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082967	463900.12	3762835.28	247.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082968	463903.77	3762835.07	247.52	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082969	463907.42	3762834.85	247.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082970	463911.07	3762834.63	247.45	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082971	463914.72	3762834.42	247.41	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082972	463918.37	3762834.20	247.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082973	463922.03	3762833.98	247.34	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082974	463925.68	3762833.77	247.28	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082975	463929.33	3762833.55	247.23	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082976	463932.98	3762833.33	247.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082977	463936.63	3762833.12	247.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082978	463940.28	3762832.90	247.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082979	463943.93	3762832.69	246.99	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082980	463947.58	3762832.47	246.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082981	463951.24	3762832.25	246.88	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082982	463954.89	3762832.04	246.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082983	463958.54	3762831.82	246.75	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082984	463962.19	3762831.60	246.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082985	463965.84	3762831.39	246.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082986	463969.49	3762831.17	246.57	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082987	463973.14	3762830.95	246.51	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082988	463976.79	3762830.74	246.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082989	463980.44	3762830.52	246.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082990	463984.10	3762830.31	246.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082991	463987.75	3762830.09	246.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0082992	463991.40	3762829.87	246.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082993	463995.05	3762829.66	246.02	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082994	463998.70	3762829.44	245.93	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082995	464002.35	3762829.22	245.87	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082996	464006.00	3762829.01	245.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082997	464009.65	3762828.79	245.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082998	464013.31	3762828.57	245.68	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0082999	464016.96	3762828.36	245.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083000	464020.61	3762828.14	245.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083001	464024.26	3762827.93	245.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083002	464027.91	3762827.71	245.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083003	464031.56	3762827.49	245.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083004	464035.21	3762827.28	245.35	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083005	464038.86	3762827.06	245.31	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083006	464042.52	3762826.84	245.27	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083007	464046.17	3762826.63	245.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083008	464049.82	3762826.41	245.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083009	464053.47	3762826.19	245.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083010	464057.12	3762825.98	245.13	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083011	464060.77	3762825.76	245.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083012	464064.42	3762825.55	245.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083013	464068.07	3762825.33	245.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083014	464071.72	3762825.11	245.05	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083015	464075.38	3762824.90	245.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083016	464079.03	3762824.68	245.04	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

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US60	L0083017	464082.68	3762824.46	245.07	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083018	464086.33	3762824.25	245.11	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083019	464089.98	3762824.03	245.14	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083020	464093.63	3762823.81	245.18	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083021	464097.28	3762823.60	245.21	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083022	464100.93	3762823.38	245.24	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083023	464104.59	3762823.17	245.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083024	464108.24	3762822.95	245.37	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083025	464111.89	3762822.73	245.43	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083026	464115.54	3762822.52	245.49	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083027	464119.19	3762822.30	245.55	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083028	464122.84	3762822.08	245.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083029	464126.49	3762821.87	245.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083030	464130.14	3762821.65	245.73	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083031	464133.79	3762821.43	245.80	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083032	464137.45	3762821.22	245.86	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083033	464141.10	3762821.00	245.92	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083034	464144.75	3762820.79	245.98	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083035	464148.40	3762820.57	246.03	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083036	464152.05	3762820.35	246.09	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083037	464155.70	3762820.14	246.15	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083038	464159.35	3762819.92	246.22	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083039	464163.00	3762819.70	246.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083040	464166.66	3762819.49	246.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083041	464170.31	3762819.27	246.42	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0083042	464173.96	3762819.05	246.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083043	464177.61	3762818.84	246.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083044	464181.26	3762818.62	246.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083045	464184.91	3762818.41	246.63	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083046	464188.56	3762818.19	246.67	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083047	464192.21	3762817.97	246.71	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083048	464195.87	3762817.76	246.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083049	464199.52	3762817.54	246.78	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083050	464203.17	3762817.32	246.81	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083051	464206.82	3762817.11	246.79	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083052	464210.47	3762816.89	246.74	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083053	464214.12	3762816.67	246.69	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083054	464217.77	3762816.46	246.64	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083055	464221.42	3762816.24	246.59	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083056	464225.07	3762816.03	246.54	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083057	464228.73	3762815.81	246.48	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083058	464232.38	3762815.59	246.32	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083059	464236.03	3762815.38	246.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083060	464239.68	3762815.16	245.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083061	464243.33	3762814.94	245.62	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083062	464246.98	3762814.73	245.39	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083063	464250.63	3762814.51	245.17	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083064	464254.28	3762814.29	244.94	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083065	464257.94	3762814.08	245.01	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083066	464261.59	3762813.86	245.29	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
US60	L0083067	464265.24	3762813.65	245.56	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083068	464268.89	3762813.43	245.83	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083069	464272.54	3762813.21	246.10	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083070	464276.19	3762813.00	246.36	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083071	464279.84	3762812.78	246.61	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083072	464283.49	3762812.56	246.85	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083073	464287.15	3762812.35	247.08	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70
	L0083074	464290.80	3762812.13	247.30	0.00	1.44E-6	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE3	L0084711	462107.82	3764726.29	336.27	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084712	462105.15	3764728.80	335.87	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084713	462102.49	3764731.30	335.46	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084714	462099.83	3764733.81	335.05	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084715	462097.16	3764736.32	334.63	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084716	462094.50	3764738.82	334.21	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084717	462091.84	3764741.33	333.78	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084718	462089.17	3764743.84	333.69	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084719	462086.51	3764746.35	333.77	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084720	462083.85	3764748.85	333.86	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084721	462081.18	3764751.36	334.13	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084722	462078.52	3764753.87	334.47	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084723	462075.86	3764756.37	334.85	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084724	462073.19	3764758.88	335.25	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084725	462070.53	3764761.39	335.69	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE3	L0084726	462067.87	3764763.89	336.16	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084727	462065.20	3764766.40	336.66	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084728	462062.54	3764768.91	337.18	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084729	462059.88	3764771.41	337.74	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084730	462057.21	3764773.92	338.26	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084731	462054.55	3764776.43	338.56	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084732	462051.89	3764778.93	338.83	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084733	462049.22	3764781.44	339.08	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084734	462046.56	3764783.95	339.31	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084735	462043.90	3764786.46	339.52	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084736	462041.23	3764788.96	339.71	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084737	462038.54	3764791.43	339.88	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084738	462035.63	3764793.66	339.96	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084739	462032.73	3764795.88	340.03	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084740	462029.82	3764798.10	339.97	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084741	462026.92	3764800.32	339.87	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084742	462024.01	3764802.54	339.75	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084743	462021.10	3764804.76	339.60	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084744	462018.20	3764806.98	339.40	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70
	L0084745	462015.29	3764809.20	339.19	3.11	1.42E-7	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE4	L0084746	462084.72	3765218.68	356.82	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084747	462087.55	3765216.36	357.30	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084748	462090.38	3765214.05	357.80	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE4	L0084749	462093.21	3765211.73	358.31	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084750	462096.04	3765209.42	358.83	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084751	462098.87	3765207.10	359.36	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084752	462101.70	3765204.78	359.90	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084753	462104.53	3765202.47	360.33	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084754	462107.36	3765200.15	360.69	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084755	462110.19	3765197.84	361.05	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084756	462113.03	3765195.52	361.43	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084757	462115.86	3765193.20	361.82	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084758	462118.69	3765190.89	362.20	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084759	462121.52	3765188.57	362.59	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084760	462124.35	3765186.26	362.97	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084761	462127.18	3765183.94	363.36	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084762	462130.01	3765181.62	363.75	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084763	462132.84	3765179.31	364.14	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084764	462135.67	3765176.99	364.53	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084765	462138.50	3765174.67	364.81	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084766	462141.33	3765172.36	365.00	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084767	462144.16	3765170.04	365.07	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084768	462147.00	3765167.73	365.13	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084769	462149.83	3765165.41	365.20	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084770	462152.66	3765163.09	365.27	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084771	462155.49	3765160.78	365.34	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084772	462158.32	3765158.46	365.41	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70
	L0084773	462161.15	3765156.15	365.48	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE4	L0084774	462163.98	3765153.83	365.42	3.11	1.71E-7	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE5	L0084775	462304.04	3765471.54	375.56	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084776	462305.35	3765468.12	374.97	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084777	462306.66	3765464.71	374.38	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084778	462307.96	3765461.29	373.79	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084779	462309.27	3765457.88	373.21	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084780	462310.58	3765454.46	372.63	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084781	462311.88	3765451.04	372.05	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084782	462313.19	3765447.63	371.48	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084783	462314.49	3765444.21	370.92	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084784	462315.80	3765440.79	370.36	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084785	462317.11	3765437.38	369.84	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084786	462318.41	3765433.96	369.44	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084787	462319.72	3765430.54	369.07	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084788	462321.02	3765427.13	368.74	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084789	462322.33	3765423.71	368.45	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084790	462323.64	3765420.29	368.20	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084791	462324.94	3765416.88	368.00	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084792	462326.25	3765413.46	367.82	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084793	462327.56	3765410.05	367.64	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084794	462328.86	3765406.63	367.46	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084795	462330.17	3765403.21	367.29	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084796	462331.47	3765399.80	367.12	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE5	L0084797	462332.78	3765396.38	366.94	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084798	462334.09	3765392.96	366.77	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70
	L0084799	462335.39	3765389.55	366.60	3.11	1.98E-7	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE6	L0084800	462597.82	3765401.78	392.20	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084801	462595.26	3765399.17	391.74	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084802	462592.71	3765396.55	391.29	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084803	462590.15	3765393.93	390.86	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084804	462587.59	3765391.32	390.45	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084805	462585.04	3765388.70	390.05	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084806	462582.48	3765386.09	389.66	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084807	462579.93	3765383.47	389.26	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084808	462577.37	3765380.85	388.85	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084809	462574.81	3765378.24	388.45	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084810	462572.26	3765375.62	388.04	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084811	462569.70	3765373.00	387.61	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084812	462567.15	3765370.39	387.19	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084813	462564.59	3765367.77	386.78	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084814	462562.03	3765365.16	386.36	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084815	462559.48	3765362.54	385.96	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084816	462556.92	3765359.92	385.56	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084817	462554.37	3765357.31	385.16	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084818	462551.81	3765354.69	384.82	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084819	462549.25	3765352.07	384.53	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE6	L0084820	462546.70	3765349.46	384.25	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084821	462544.14	3765346.84	384.01	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084822	462541.59	3765344.23	383.78	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084823	462539.03	3765341.61	383.56	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084824	462536.47	3765338.99	383.35	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084825	462533.92	3765336.38	383.15	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084826	462531.36	3765333.76	382.95	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084827	462528.80	3765331.15	382.77	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084828	462526.25	3765328.53	382.60	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084829	462523.69	3765325.91	382.44	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084830	462521.14	3765323.30	382.47	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084831	462518.58	3765320.68	382.58	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70
	L0084832	462516.02	3765318.06	382.72	3.11	1.50E-7	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE7	L0084833	462107.82	3764726.29	336.27	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084834	462105.15	3764728.80	335.87	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084835	462102.49	3764731.30	335.46	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084836	462099.83	3764733.81	335.05	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084837	462097.16	3764736.32	334.63	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084838	462094.50	3764738.82	334.21	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084839	462091.84	3764741.33	333.78	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084840	462089.17	3764743.84	333.69	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084841	462086.51	3764746.35	333.77	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084842	462083.85	3764748.85	333.86	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE7	L0084843	462081.18	3764751.36	334.13	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084844	462078.52	3764753.87	334.47	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084845	462075.86	3764756.37	334.85	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084846	462073.19	3764758.88	335.25	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084847	462070.53	3764761.39	335.69	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084848	462067.87	3764763.89	336.16	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084849	462065.20	3764766.40	336.66	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084850	462062.54	3764768.91	337.18	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084851	462059.88	3764771.41	337.74	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084852	462057.21	3764773.92	338.26	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084853	462054.55	3764776.43	338.56	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084854	462051.89	3764778.93	338.83	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084855	462049.22	3764781.44	339.08	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084856	462046.56	3764783.95	339.31	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084857	462043.90	3764786.46	339.52	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084858	462041.23	3764788.96	339.71	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084859	462038.54	3764791.43	339.88	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084860	462035.63	3764793.66	339.96	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084861	462032.73	3764795.88	340.03	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084862	462029.82	3764798.10	339.97	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084863	462026.92	3764800.32	339.87	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084864	462024.01	3764802.54	339.75	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084865	462021.10	3764804.76	339.60	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084866	462018.20	3764806.98	339.40	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70
	L0084867	462015.29	3764809.20	339.19	0.00	5.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE8	L0084868	462084.72	3765218.68	356.82	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084869	462087.55	3765216.36	357.30	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084870	462090.38	3765214.05	357.80	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084871	462093.21	3765211.73	358.31	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084872	462096.04	3765209.42	358.83	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084873	462098.87	3765207.10	359.36	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084874	462101.70	3765204.78	359.90	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084875	462104.53	3765202.47	360.33	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084876	462107.36	3765200.15	360.69	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084877	462110.19	3765197.84	361.05	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084878	462113.03	3765195.52	361.43	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084879	462115.86	3765193.20	361.82	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084880	462118.69	3765190.89	362.20	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084881	462121.52	3765188.57	362.59	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084882	462124.35	3765186.26	362.97	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084883	462127.18	3765183.94	363.36	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084884	462130.01	3765181.62	363.75	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084885	462132.84	3765179.31	364.14	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084886	462135.67	3765176.99	364.53	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084887	462138.50	3765174.67	364.81	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084888	462141.33	3765172.36	365.00	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084889	462144.16	3765170.04	365.07	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084890	462147.00	3765167.73	365.13	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084891	462149.83	3765165.41	365.20	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084892	462152.66	3765163.09	365.27	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE8	L0084893	462155.49	3765160.78	365.34	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084894	462158.32	3765158.46	365.41	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084895	462161.15	3765156.15	365.48	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70
	L0084896	462163.98	3765153.83	365.42	0.00	6.62E-9	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE9	L0084897	462304.04	3765471.54	375.56	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084898	462305.35	3765468.12	374.97	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084899	462306.66	3765464.71	374.38	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084900	462307.96	3765461.29	373.79	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084901	462309.27	3765457.88	373.21	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084902	462310.58	3765454.46	372.63	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084903	462311.88	3765451.04	372.05	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084904	462313.19	3765447.63	371.48	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084905	462314.49	3765444.21	370.92	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084906	462315.80	3765440.79	370.36	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084907	462317.11	3765437.38	369.84	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084908	462318.41	3765433.96	369.44	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084909	462319.72	3765430.54	369.07	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084910	462321.02	3765427.13	368.74	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084911	462322.33	3765423.71	368.45	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084912	462323.64	3765420.29	368.20	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084913	462324.94	3765416.88	368.00	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084914	462326.25	3765413.46	367.82	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084915	462327.56	3765410.05	367.64	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE9	L0084916	462328.86	3765406.63	367.46	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084917	462330.17	3765403.21	367.29	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084918	462331.47	3765399.80	367.12	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084919	462332.78	3765396.38	366.94	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084920	462334.09	3765392.96	366.77	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70
	L0084921	462335.39	3765389.55	366.60	0.00	7.68E-9	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE10	L0084922	462597.82	3765401.78	392.20	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084923	462595.26	3765399.17	391.74	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084924	462592.71	3765396.55	391.29	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084925	462590.15	3765393.93	390.86	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084926	462587.59	3765391.32	390.45	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084927	462585.04	3765388.70	390.05	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084928	462582.48	3765386.09	389.66	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084929	462579.93	3765383.47	389.26	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084930	462577.37	3765380.85	388.85	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084931	462574.81	3765378.24	388.45	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084932	462572.26	3765375.62	388.04	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084933	462569.70	3765373.00	387.61	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084934	462567.15	3765370.39	387.19	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084935	462564.59	3765367.77	386.78	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084936	462562.03	3765365.16	386.36	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084937	462559.48	3765362.54	385.96	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084938	462556.92	3765359.92	385.56	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE10	L0084939	462554.37	3765357.31	385.16	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084940	462551.81	3765354.69	384.82	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084941	462549.25	3765352.07	384.53	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084942	462546.70	3765349.46	384.25	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084943	462544.14	3765346.84	384.01	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084944	462541.59	3765344.23	383.78	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084945	462539.03	3765341.61	383.56	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084946	462536.47	3765338.99	383.35	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084947	462533.92	3765336.38	383.15	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084948	462531.36	3765333.76	382.95	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084949	462528.80	3765331.15	382.77	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084950	462526.25	3765328.53	382.60	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084951	462523.69	3765325.91	382.44	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084952	462521.14	3765323.30	382.47	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084953	462518.58	3765320.68	382.58	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70
	L0084954	462516.02	3765318.06	382.72	0.00	5.82E-9	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE2	L0084955	461359.84	3764312.22	291.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084956	461362.90	3764314.21	291.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084957	461365.97	3764316.20	291.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084958	461369.04	3764318.19	291.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084959	461372.11	3764320.18	291.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084960	461375.18	3764322.17	291.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084961	461378.25	3764324.16	292.12	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE2	L0084962	461381.32	3764326.15	292.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084963	461384.39	3764328.14	292.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084964	461387.46	3764330.13	292.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084965	461390.53	3764332.12	292.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084966	461393.59	3764334.11	292.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084967	461396.66	3764336.10	292.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084968	461399.73	3764338.09	293.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084969	461402.80	3764340.08	293.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084970	461405.87	3764342.07	293.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084971	461408.94	3764344.06	293.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084972	461412.01	3764346.05	293.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084973	461415.08	3764348.04	293.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084974	461418.15	3764350.03	294.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084975	461421.21	3764352.02	294.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084976	461424.28	3764354.01	294.24	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084977	461427.35	3764355.99	294.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084978	461430.42	3764357.98	294.44	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084979	461433.49	3764359.97	294.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084980	461436.56	3764361.96	294.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084981	461439.63	3764363.95	294.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084982	461442.70	3764365.94	294.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084983	461445.77	3764367.93	294.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084984	461448.84	3764369.92	295.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084985	461451.90	3764371.91	295.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084986	461454.97	3764373.90	295.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE2	L0084987	461458.04	3764375.89	295.24	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084988	461461.11	3764377.88	295.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084989	461464.18	3764379.87	295.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084990	461467.25	3764381.86	295.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084991	461470.32	3764383.85	295.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084992	461473.39	3764385.84	295.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084993	461476.46	3764387.83	295.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084994	461479.52	3764389.82	295.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084995	461482.59	3764391.81	296.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084996	461485.66	3764393.80	296.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084997	461488.73	3764395.79	296.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084998	461491.80	3764397.78	296.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0084999	461494.87	3764399.77	296.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085000	461497.94	3764401.76	296.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085001	461501.01	3764403.75	296.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085002	461504.08	3764405.74	297.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085003	461507.15	3764407.73	297.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085004	461510.21	3764409.72	297.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085005	461513.28	3764411.71	297.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085006	461516.35	3764413.70	297.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085007	461519.42	3764415.69	298.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085008	461522.49	3764417.68	298.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085009	461525.56	3764419.67	298.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085010	461528.63	3764421.66	299.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085011	461531.70	3764423.65	299.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085012	461534.77	3764425.64	299.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085013	461537.83	3764427.63	299.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085014	461540.90	3764429.62	300.20	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085015	461543.97	3764431.61	300.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085016	461547.04	3764433.60	300.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085017	461550.11	3764435.59	300.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085018	461553.18	3764437.58	301.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085019	461556.25	3764439.57	301.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085020	461559.32	3764441.56	301.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085021	461562.39	3764443.55	301.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085022	461565.46	3764445.54	302.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085023	461568.52	3764447.53	302.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085024	461571.59	3764449.52	302.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085025	461574.66	3764451.51	302.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085026	461577.73	3764453.50	303.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085027	461580.80	3764455.49	303.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085028	461583.87	3764457.48	303.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085029	461586.94	3764459.47	303.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085030	461590.01	3764461.46	304.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085031	461593.08	3764463.45	304.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085032	461596.14	3764465.44	304.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085033	461599.21	3764467.43	305.12	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085034	461602.28	3764469.42	305.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085035	461605.35	3764471.41	306.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085036	461608.42	3764473.40	306.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085037	461611.49	3764475.39	306.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085038	461614.56	3764477.38	307.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085039	461617.63	3764479.37	307.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085040	461620.70	3764481.36	307.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085041	461623.77	3764483.35	308.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085042	461626.83	3764485.34	308.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085043	461629.90	3764487.33	309.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085044	461632.97	3764489.32	309.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085045	461636.04	3764491.31	309.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085046	461639.11	3764493.30	309.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085047	461642.18	3764495.29	310.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085048	461645.25	3764497.28	310.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085049	461648.32	3764499.27	310.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085050	461651.39	3764501.26	311.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085051	461654.45	3764503.25	312.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085052	461657.52	3764505.24	312.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085053	461660.59	3764507.23	313.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085054	461663.66	3764509.22	314.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085055	461666.73	3764511.21	314.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085056	461669.80	3764513.20	315.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085057	461672.87	3764515.18	315.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085058	461675.94	3764517.17	316.55	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085059	461679.01	3764519.16	317.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085060	461682.08	3764521.15	317.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085061	461685.14	3764523.14	318.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085062	461688.21	3764525.13	318.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085063	461691.28	3764527.12	319.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085064	461694.35	3764529.11	319.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085065	461697.42	3764531.10	320.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085066	461700.49	3764533.09	320.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085067	461703.56	3764535.08	319.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085068	461706.63	3764537.07	319.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085069	461709.70	3764539.06	319.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085070	461712.76	3764541.05	319.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085071	461715.83	3764543.04	319.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085072	461718.90	3764545.03	319.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085073	461721.97	3764547.02	318.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085074	461725.04	3764549.01	318.44	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085075	461728.11	3764551.00	318.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085076	461731.18	3764552.99	317.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085077	461734.25	3764554.98	317.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085078	461737.32	3764556.97	316.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085079	461740.39	3764558.96	316.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085080	461743.45	3764560.95	316.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085081	461746.52	3764562.94	316.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085082	461749.59	3764564.93	316.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085083	461752.66	3764566.92	316.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085084	461755.73	3764568.91	316.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085085	461758.80	3764570.90	316.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085086	461761.87	3764572.89	316.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085087	461764.94	3764574.88	316.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085088	461768.01	3764576.87	316.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085089	461771.07	3764578.86	316.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085090	461774.14	3764580.85	316.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085091	461777.21	3764582.84	316.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085092	461780.28	3764584.83	316.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085093	461783.35	3764586.82	317.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085094	461786.42	3764588.81	317.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085095	461789.49	3764590.80	317.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085096	461792.56	3764592.79	317.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085097	461795.63	3764594.78	317.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085098	461798.70	3764596.77	317.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085099	461801.76	3764598.76	318.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085100	461804.83	3764600.75	318.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085101	461807.90	3764602.74	318.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085102	461810.97	3764604.73	319.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085103	461814.04	3764606.72	319.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085104	461817.11	3764608.71	319.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085105	461820.18	3764610.70	319.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085106	461823.25	3764612.69	320.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085107	461826.32	3764614.68	320.44	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085108	461829.38	3764616.67	320.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085109	461832.45	3764618.66	320.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085110	461835.52	3764620.65	321.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085111	461838.59	3764622.64	321.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085112	461841.66	3764624.63	321.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085113	461844.73	3764626.62	321.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085114	461847.80	3764628.61	321.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085115	461850.87	3764630.60	321.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085116	461853.94	3764632.59	322.01	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085117	461857.01	3764634.58	322.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085118	461860.07	3764636.57	322.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085119	461863.14	3764638.56	322.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085120	461866.21	3764640.55	322.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085121	461869.28	3764642.54	322.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085122	461872.35	3764644.53	322.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085123	461875.42	3764646.52	322.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085124	461878.49	3764648.51	322.24	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085125	461881.56	3764650.50	322.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085126	461884.63	3764652.49	322.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085127	461887.69	3764654.48	322.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085128	461890.76	3764656.47	322.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085129	461893.83	3764658.46	322.94	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085130	461896.90	3764660.45	323.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085131	461899.97	3764662.44	323.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085132	461903.04	3764664.43	323.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085133	461906.11	3764666.42	323.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085134	461909.18	3764668.41	323.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085135	461912.25	3764670.40	323.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085136	461915.32	3764672.39	323.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085137	461918.38	3764674.38	324.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085138	461921.45	3764676.36	324.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085139	461924.52	3764678.35	324.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085140	461927.59	3764680.34	324.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085141	461930.66	3764682.33	324.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085142	461933.73	3764684.32	324.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085143	461936.80	3764686.31	325.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085144	461939.87	3764688.30	325.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085145	461942.94	3764690.29	325.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085146	461946.00	3764692.28	325.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085147	461949.07	3764694.27	325.90	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085148	461952.14	3764696.26	326.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085149	461955.21	3764698.25	326.29	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085150	461958.28	3764700.24	326.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085151	461961.35	3764702.23	326.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085152	461964.42	3764704.22	326.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085153	461967.49	3764706.21	326.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085154	461970.56	3764708.20	326.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085155	461973.63	3764710.19	326.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085156	461976.69	3764712.18	327.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085157	461979.76	3764714.17	327.24	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085158	461982.83	3764716.16	327.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085159	461985.90	3764718.15	327.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085160	461988.97	3764720.14	327.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085161	461992.04	3764722.13	327.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085162	461995.11	3764724.12	327.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085163	461998.18	3764726.11	328.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085164	462001.25	3764728.10	328.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085165	462004.31	3764730.09	328.55	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085166	462007.38	3764732.08	328.80	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085167	462010.45	3764734.07	329.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085168	462013.52	3764736.06	329.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085169	462016.59	3764738.05	329.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085170	462019.66	3764740.04	329.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085171	462022.73	3764742.03	330.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085172	462025.80	3764744.02	330.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085173	462028.87	3764746.01	331.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085174	462031.94	3764748.00	331.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085175	462035.00	3764749.99	332.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085176	462038.07	3764751.98	332.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085177	462041.14	3764753.97	333.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085178	462044.21	3764755.96	333.94	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085179	462047.28	3764757.95	334.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085180	462050.35	3764759.94	335.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085181	462053.42	3764761.93	335.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085182	462056.49	3764763.92	336.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085183	462059.56	3764765.91	336.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085184	462062.62	3764767.90	336.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085185	462065.69	3764769.89	337.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085186	462068.76	3764771.88	337.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085187	462071.83	3764773.87	337.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085188	462074.90	3764775.86	338.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085189	462077.97	3764777.85	338.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085190	462079.71	3764780.73	339.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085191	462080.37	3764784.32	339.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085192	462081.02	3764787.92	340.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085193	462081.68	3764791.52	341.12	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085194	462082.34	3764795.12	341.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085195	462083.00	3764798.72	342.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085196	462083.66	3764802.31	343.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085197	462084.32	3764805.91	343.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085198	462084.98	3764809.51	344.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085199	462085.63	3764813.11	345.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085200	462086.29	3764816.70	345.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085201	462086.95	3764820.30	346.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085202	462087.61	3764823.90	347.01	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085203	462088.27	3764827.50	347.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085204	462088.93	3764831.10	348.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085205	462089.59	3764834.69	348.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085206	462090.24	3764838.29	349.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085207	462090.90	3764841.89	349.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085208	462091.56	3764845.49	350.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085209	462092.22	3764849.09	350.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085210	462092.88	3764852.68	351.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085211	462093.54	3764856.28	351.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085212	462094.19	3764859.88	352.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085213	462094.85	3764863.48	353.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085214	462095.51	3764867.07	353.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085215	462096.17	3764870.67	353.84	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085216	462096.83	3764874.27	354.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085217	462097.49	3764877.87	354.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085218	462098.15	3764881.47	354.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085219	462098.80	3764885.06	355.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085220	462099.46	3764888.66	355.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085221	462100.12	3764892.26	356.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085222	462100.78	3764895.86	356.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085223	462101.44	3764899.45	356.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085224	462102.10	3764903.05	356.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085225	462102.76	3764906.65	356.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085226	462103.41	3764910.25	356.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085227	462104.07	3764913.85	356.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085228	462104.73	3764917.44	356.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085229	462105.39	3764921.04	356.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085230	462106.05	3764924.64	356.84	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085231	462106.71	3764928.24	356.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085232	462107.36	3764931.84	356.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085233	462108.02	3764935.43	355.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085234	462108.68	3764939.03	355.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085235	462109.34	3764942.63	355.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085236	462110.00	3764946.23	354.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085237	462110.66	3764949.82	354.28	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085238	462111.32	3764953.42	353.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085239	462111.97	3764957.02	353.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085240	462112.63	3764960.62	352.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085241	462113.29	3764964.22	352.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085242	462113.95	3764967.81	351.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085243	462114.61	3764971.41	350.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085244	462115.27	3764975.01	350.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085245	462115.93	3764978.61	349.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085246	462116.58	3764982.20	348.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085247	462117.24	3764985.80	348.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085248	462117.90	3764989.40	347.59	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085249	462118.56	3764993.00	347.28	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085250	462119.22	3764996.60	346.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085251	462119.88	3765000.19	346.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085252	462120.54	3765003.79	346.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085253	462121.19	3765007.39	346.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085254	462121.85	3765010.99	345.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085255	462122.51	3765014.59	345.64	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085256	462123.17	3765018.18	345.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085257	462123.83	3765021.78	345.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085258	462124.49	3765025.38	345.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085259	462125.14	3765028.98	346.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085260	462125.80	3765032.57	346.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085261	462126.46	3765036.17	346.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085262	462127.12	3765039.77	347.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085263	462127.78	3765043.37	347.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085264	462128.44	3765046.97	347.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085265	462129.10	3765050.56	347.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085266	462129.75	3765054.16	348.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085267	462130.41	3765057.76	348.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085268	462131.07	3765061.36	349.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085269	462131.73	3765064.96	350.01	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085270	462132.39	3765068.55	350.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085271	462133.05	3765072.15	351.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085272	462133.71	3765075.75	351.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085273	462134.36	3765079.35	352.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085274	462135.02	3765082.94	352.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085275	462135.68	3765086.54	353.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085276	462136.34	3765090.14	354.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085277	462137.00	3765093.74	354.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085278	462137.66	3765097.34	355.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085279	462138.32	3765100.93	356.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085280	462138.97	3765104.53	356.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085281	462139.63	3765108.13	357.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085282	462140.29	3765111.73	358.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085283	462140.95	3765115.32	358.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085284	462141.61	3765118.92	359.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085285	462142.27	3765122.52	359.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085286	462142.92	3765126.12	360.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085287	462143.58	3765129.72	360.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085288	462144.24	3765133.31	361.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085289	462144.90	3765136.91	361.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085290	462145.56	3765140.51	362.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085291	462146.22	3765144.11	362.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085292	462146.88	3765147.71	363.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085293	462147.53	3765151.30	363.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085294	462148.19	3765154.90	364.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085295	462148.85	3765158.50	364.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085296	462149.51	3765162.10	364.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085297	462150.17	3765165.69	365.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085298	462150.83	3765169.29	365.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085299	462151.49	3765172.89	366.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085300	462152.14	3765176.49	366.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085301	462152.80	3765180.09	366.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085302	462153.46	3765183.68	366.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085303	462154.12	3765187.28	366.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085304	462154.78	3765190.88	366.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085305	462155.44	3765194.48	366.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085306	462156.09	3765198.07	366.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085307	462156.75	3765201.67	366.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085308	462157.41	3765205.27	366.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085309	462158.07	3765208.87	366.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085310	462158.73	3765212.47	366.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085311	462159.39	3765216.06	365.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085312	462160.05	3765219.66	365.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085313	462160.70	3765223.26	365.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085314	462161.36	3765226.86	365.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085315	462162.02	3765230.46	365.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085316	462162.68	3765234.05	364.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085317	462163.34	3765237.65	364.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085318	462164.00	3765241.25	364.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085319	462164.66	3765244.85	364.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085320	462165.31	3765248.44	364.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085321	462165.97	3765252.04	364.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085322	462166.63	3765255.64	364.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085323	462167.29	3765259.24	364.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085324	462167.95	3765262.84	364.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085325	462168.61	3765266.43	364.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085326	462169.27	3765270.03	364.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085327	462169.92	3765273.63	364.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085328	462170.58	3765277.23	364.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085329	462171.24	3765280.83	364.28	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085330	462171.90	3765284.42	364.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085331	462172.56	3765288.02	364.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085332	462173.22	3765291.62	363.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085333	462173.87	3765295.22	363.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085334	462174.53	3765298.81	363.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085335	462175.19	3765302.41	363.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085336	462175.85	3765306.01	362.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085337	462176.51	3765309.61	362.24	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085338	462177.17	3765313.21	361.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085339	462177.83	3765316.80	361.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085340	462178.48	3765320.40	360.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085341	462179.14	3765324.00	360.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085342	462179.80	3765327.60	360.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085343	462180.46	3765331.19	359.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085344	462181.12	3765334.79	359.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085345	462181.78	3765338.39	359.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085346	462182.44	3765341.99	359.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085347	462183.09	3765345.59	358.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085348	462183.75	3765349.18	358.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085349	462184.41	3765352.78	358.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085350	462185.35	3765356.16	358.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085351	462188.66	3765357.72	358.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085352	462191.97	3765359.27	358.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085353	462195.28	3765360.82	358.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085354	462198.60	3765362.37	359.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085355	462201.91	3765363.93	359.64	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085356	462205.22	3765365.48	360.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085357	462208.53	3765367.03	360.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085358	462211.84	3765368.58	360.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085359	462215.16	3765370.14	361.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085360	462218.47	3765371.69	361.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085361	462221.78	3765373.24	361.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085362	462225.09	3765374.79	362.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085363	462228.40	3765376.35	362.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085364	462231.71	3765377.90	362.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085365	462235.03	3765379.45	363.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085366	462238.34	3765381.00	363.51	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085367	462241.65	3765382.55	363.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085368	462244.96	3765384.11	363.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085369	462248.27	3765385.66	364.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085370	462251.59	3765387.21	364.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085371	462254.90	3765388.76	364.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085372	462258.21	3765390.32	364.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085373	462261.52	3765391.87	364.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085374	462264.83	3765393.42	365.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085375	462268.14	3765394.97	365.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085376	462271.46	3765396.53	365.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085377	462274.77	3765398.08	365.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085378	462278.08	3765399.63	365.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085379	462281.39	3765401.18	366.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085380	462284.70	3765402.74	366.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085381	462288.02	3765404.29	366.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085382	462291.33	3765405.84	366.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085383	462294.64	3765407.39	366.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085384	462297.95	3765408.95	367.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085385	462301.26	3765410.50	367.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085386	462304.57	3765412.05	367.27	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085387	462307.89	3765413.60	367.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085388	462311.20	3765415.16	367.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085389	462314.51	3765416.71	367.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085390	462317.82	3765418.26	367.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085391	462321.13	3765419.81	367.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085392	462324.45	3765421.36	368.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085393	462327.76	3765422.92	368.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085394	462331.07	3765424.47	369.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085395	462334.38	3765426.02	369.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085396	462337.69	3765427.57	369.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085397	462341.00	3765429.13	370.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085398	462344.32	3765430.68	370.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085399	462347.63	3765432.23	370.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085400	462350.94	3765433.78	371.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085401	462354.25	3765435.34	371.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085402	462357.56	3765436.89	371.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085403	462360.88	3765438.44	372.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085404	462364.19	3765439.99	372.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085405	462367.50	3765441.55	373.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085406	462370.81	3765443.10	373.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085407	462374.12	3765444.65	373.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085408	462377.44	3765445.80	374.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085409	462380.76	3765444.27	374.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085410	462384.08	3765442.75	374.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085411	462387.41	3765441.22	374.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085412	462390.73	3765439.70	374.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085413	462394.06	3765438.17	375.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085414	462397.38	3765436.64	375.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085415	462400.70	3765435.12	375.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085416	462404.03	3765433.59	375.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085417	462407.35	3765432.07	375.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085418	462410.68	3765430.54	375.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085419	462414.00	3765429.02	376.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085420	462417.33	3765427.49	376.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085421	462420.65	3765425.96	376.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085422	462423.97	3765424.44	376.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085423	462427.30	3765422.91	376.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085424	462430.62	3765421.39	376.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085425	462433.95	3765419.86	377.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085426	462437.27	3765418.33	377.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085427	462440.59	3765416.81	377.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085428	462443.92	3765415.28	377.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085429	462447.24	3765413.76	378.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085430	462450.57	3765412.23	378.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085431	462453.89	3765410.71	378.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085432	462457.21	3765409.18	378.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085433	462460.54	3765407.65	378.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085434	462463.86	3765406.13	378.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085435	462467.19	3765404.60	378.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085436	462470.51	3765403.08	379.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE2	L0085437	462473.84	3765401.55	379.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085438	462477.16	3765400.03	379.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085439	462480.48	3765398.50	379.68	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085440	462483.81	3765396.97	379.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085441	462487.13	3765395.45	380.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085442	462490.46	3765393.92	380.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085443	462493.78	3765392.40	380.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085444	462497.10	3765390.87	380.80	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085445	462500.43	3765389.34	381.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085446	462503.75	3765387.82	381.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085447	462507.08	3765386.29	381.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085448	462510.40	3765384.77	381.90	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085449	462513.73	3765383.24	382.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085450	462517.05	3765381.72	382.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085451	462520.37	3765380.19	382.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085452	462523.70	3765378.66	383.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085453	462527.02	3765377.14	383.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085454	462530.35	3765375.61	383.59	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085455	462533.67	3765374.09	383.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085456	462536.99	3765372.56	384.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085457	462540.32	3765371.03	384.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085458	462543.64	3765369.51	384.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085459	462546.97	3765367.98	384.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085460	462550.29	3765366.46	385.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085461	462553.61	3765364.93	385.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085462	462556.94	3765363.41	385.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085463	462560.26	3765361.88	386.01	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085464	462563.59	3765360.35	386.27	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085465	462566.91	3765358.83	386.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085466	462570.24	3765357.30	386.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085467	462573.56	3765355.78	387.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085468	462576.88	3765354.25	387.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085469	462580.21	3765352.72	387.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085470	462583.53	3765351.20	387.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085471	462586.86	3765349.67	388.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085472	462590.18	3765348.15	388.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085473	462593.50	3765346.62	388.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085474	462596.83	3765345.10	388.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085475	462600.15	3765343.57	388.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085476	462603.48	3765342.04	388.92	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085477	462606.80	3765340.52	388.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085478	462610.13	3765338.99	388.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085479	462613.45	3765337.47	388.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085480	462616.77	3765335.94	388.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085481	462620.10	3765334.41	387.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085482	462623.42	3765332.89	387.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085483	462626.75	3765331.36	386.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085484	462630.07	3765329.84	386.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085485	462633.39	3765328.31	385.77	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085486	462636.72	3765326.79	385.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085487	462640.04	3765325.26	384.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085488	462643.37	3765323.73	383.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085489	462646.69	3765322.21	383.20	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085490	462650.01	3765320.68	382.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085491	462653.34	3765319.16	382.06	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085492	462656.66	3765317.63	381.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085493	462659.99	3765316.10	381.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085494	462663.31	3765314.58	380.45	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085495	462666.64	3765313.05	379.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085496	462669.96	3765311.53	379.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085497	462673.28	3765310.00	378.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085498	462676.61	3765308.48	378.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085499	462679.93	3765306.95	377.55	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085500	462683.26	3765305.42	376.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085501	462686.58	3765303.90	376.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085502	462689.90	3765302.37	375.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085503	462693.23	3765300.85	375.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085504	462696.55	3765299.32	374.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085505	462699.88	3765297.79	374.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085506	462703.20	3765296.27	374.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085507	462706.53	3765294.74	374.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085508	462709.85	3765293.22	374.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085509	462713.17	3765291.69	374.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085510	462716.50	3765290.17	374.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085511	462719.82	3765288.64	375.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085512	462723.15	3765287.11	375.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085513	462726.47	3765285.59	375.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085514	462729.79	3765284.06	375.80	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085515	462733.12	3765282.54	376.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085516	462736.44	3765281.01	376.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085517	462739.77	3765279.48	376.84	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085518	462743.08	3765277.93	377.12	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085519	462745.83	3765275.53	377.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085520	462748.58	3765273.12	377.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085521	462751.33	3765270.71	376.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085522	462754.09	3765268.30	376.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085523	462756.84	3765265.89	375.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085524	462759.59	3765263.48	374.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085525	462762.34	3765261.07	374.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085526	462765.10	3765258.67	373.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085527	462767.85	3765256.26	372.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085528	462770.60	3765253.85	371.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085529	462773.35	3765251.44	371.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085530	462776.11	3765249.03	370.35	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085531	462778.86	3765246.62	369.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085532	462781.61	3765244.21	369.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085533	462784.36	3765241.81	368.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085534	462787.12	3765239.40	368.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085535	462789.87	3765236.99	367.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085536	462792.62	3765234.58	366.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085537	462795.37	3765232.17	366.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085538	462798.13	3765229.76	365.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085539	462800.88	3765227.35	365.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085540	462803.63	3765224.95	364.84	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085541	462806.39	3765222.54	364.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085542	462809.14	3765220.13	363.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085543	462811.89	3765217.72	362.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085544	462814.64	3765215.31	362.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085545	462817.40	3765212.90	361.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085546	462820.15	3765210.50	360.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085547	462822.90	3765208.09	360.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085548	462825.65	3765205.68	359.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085549	462828.41	3765203.27	359.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085550	462831.16	3765200.86	358.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085551	462833.91	3765198.45	358.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085552	462836.66	3765196.04	357.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085553	462839.42	3765193.64	357.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085554	462842.17	3765191.23	356.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085555	462844.92	3765188.82	356.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085556	462847.67	3765186.41	355.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085557	462850.43	3765184.00	355.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085558	462853.18	3765181.59	355.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085559	462855.93	3765179.18	354.78	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085560	462858.69	3765176.78	354.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085561	462861.44	3765174.37	354.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085562	462864.19	3765171.96	353.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085563	462866.94	3765169.55	353.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085564	462869.70	3765167.14	352.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085565	462872.45	3765164.73	352.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085566	462875.20	3765162.32	352.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085567	462877.95	3765159.92	351.68	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085568	462880.71	3765157.51	351.32	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085569	462883.46	3765155.10	350.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085570	462886.21	3765152.69	350.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085571	462888.96	3765150.28	350.20	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085572	462891.72	3765147.87	349.83	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085573	462894.47	3765145.46	349.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085574	462897.22	3765143.06	349.10	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085575	462899.97	3765140.65	348.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085576	462902.73	3765138.24	348.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085577	462905.48	3765135.83	348.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085578	462908.23	3765133.42	347.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085579	462910.99	3765131.01	347.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085580	462913.74	3765128.60	346.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085581	462916.49	3765126.20	346.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085582	462919.24	3765123.79	346.20	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085583	462922.00	3765121.38	345.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085584	462924.75	3765118.97	345.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085585	462927.50	3765116.56	345.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085586	462930.25	3765114.15	344.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085587	462933.01	3765111.74	344.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085588	462935.76	3765109.34	343.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085589	462938.51	3765106.93	343.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085590	462941.26	3765104.52	342.53	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085591	462944.02	3765102.11	342.03	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085592	462946.77	3765099.70	341.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085593	462949.52	3765097.29	341.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085594	462952.27	3765094.88	340.56	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085595	462955.03	3765092.48	340.08	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085596	462957.78	3765090.07	339.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085597	462960.53	3765087.66	339.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085598	462963.28	3765085.25	338.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085599	462966.04	3765082.84	338.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085600	462968.79	3765080.43	337.70	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085601	462971.54	3765078.02	337.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085602	462974.30	3765075.62	336.75	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085603	462977.05	3765073.21	336.30	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085604	462979.80	3765070.80	335.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085605	462982.55	3765068.39	335.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085606	462985.31	3765065.98	334.94	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085607	462988.06	3765063.57	334.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085608	462990.81	3765061.17	334.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085609	462993.56	3765058.76	333.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085610	462996.32	3765056.35	333.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085611	462999.07	3765053.94	332.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085612	463001.82	3765051.53	332.28	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085613	463004.57	3765049.12	331.84	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085614	463007.33	3765046.71	331.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085615	463010.08	3765044.31	331.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085616	463012.83	3765041.90	330.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085617	463015.58	3765039.49	330.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085618	463018.34	3765037.08	329.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085619	463021.09	3765034.67	329.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085620	463023.84	3765032.26	329.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085621	463026.60	3765029.85	328.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085622	463029.35	3765027.45	328.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085623	463032.10	3765025.04	328.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085624	463034.85	3765022.63	327.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085625	463037.61	3765020.22	327.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085626	463040.36	3765017.81	327.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085627	463043.11	3765015.40	326.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085628	463045.86	3765012.99	326.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085629	463048.62	3765010.59	326.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085630	463051.37	3765008.18	326.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085631	463054.12	3765005.77	325.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085632	463056.87	3765003.36	325.38	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085633	463059.63	3765000.95	325.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085634	463062.38	3764998.54	324.78	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085635	463065.13	3764996.13	324.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085636	463067.88	3764993.73	324.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085637	463070.64	3764991.32	323.89	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085638	463073.39	3764988.91	323.59	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085639	463076.14	3764986.50	323.29	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085640	463078.90	3764984.09	322.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085641	463081.65	3764981.68	322.68	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085642	463084.40	3764979.27	322.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085643	463087.15	3764976.87	322.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085644	463089.91	3764974.46	321.87	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085645	463092.66	3764972.05	321.60	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085646	463095.41	3764969.64	321.34	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085647	463098.16	3764967.23	321.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085648	463100.92	3764964.82	320.81	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085649	463103.67	3764962.41	320.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085650	463106.42	3764960.01	320.27	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085651	463109.17	3764957.60	320.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085652	463111.82	3764955.08	319.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085653	463114.25	3764952.34	319.45	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085654	463116.67	3764949.61	319.18	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085655	463119.10	3764946.87	318.91	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085656	463121.53	3764944.14	318.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085657	463123.96	3764941.40	318.36	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085658	463126.39	3764938.67	318.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085659	463128.82	3764935.93	317.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085660	463131.25	3764933.20	317.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085661	463133.67	3764930.46	317.27	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085662	463136.10	3764927.73	317.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085663	463138.53	3764924.99	316.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085664	463140.96	3764922.26	316.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085665	463143.39	3764919.52	316.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085666	463145.82	3764916.79	315.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085667	463148.24	3764914.05	315.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085668	463150.67	3764911.32	315.45	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085669	463153.10	3764908.58	315.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085670	463155.53	3764905.85	314.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085671	463157.96	3764903.11	314.67	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085672	463160.39	3764900.38	314.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085673	463162.81	3764897.64	314.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085674	463165.24	3764894.91	313.90	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085675	463167.67	3764892.17	313.65	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085676	463170.10	3764889.44	313.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085677	463172.53	3764886.70	313.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085678	463174.96	3764883.97	312.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085679	463177.39	3764881.23	312.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085680	463179.81	3764878.50	312.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085681	463182.24	3764875.76	312.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085682	463184.67	3764873.03	311.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085683	463187.10	3764870.29	311.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085684	463189.53	3764867.56	311.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085685	463191.96	3764864.82	311.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085686	463194.38	3764862.09	310.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085687	463196.81	3764859.35	310.71	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085688	463199.24	3764856.62	310.47	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085689	463201.67	3764853.88	310.23	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085690	463204.10	3764851.15	309.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085691	463206.53	3764848.41	309.73	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085692	463208.95	3764845.68	309.48	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085693	463211.38	3764842.94	309.22	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085694	463213.81	3764840.21	308.86	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085695	463216.24	3764837.47	308.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085696	463218.67	3764834.73	307.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085697	463221.10	3764832.00	307.49	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085698	463223.53	3764829.26	307.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085699	463225.95	3764826.53	306.55	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085700	463228.38	3764823.79	306.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085701	463230.81	3764821.06	305.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085702	463233.24	3764818.32	305.33	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085703	463235.67	3764815.59	304.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085704	463238.10	3764812.85	304.64	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085705	463240.52	3764810.12	304.45	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085706	463242.95	3764807.38	304.28	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085707	463245.38	3764804.65	304.13	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085708	463247.81	3764801.91	304.01	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085709	463250.24	3764799.18	303.90	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085710	463252.67	3764796.44	303.80	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085711	463255.10	3764793.71	303.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

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ONSITE2	L0085712	463257.52	3764790.97	303.57	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085713	463259.95	3764788.24	303.43	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085714	463262.38	3764785.50	303.27	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085715	463264.81	3764782.77	303.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085716	463267.24	3764780.03	302.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085717	463269.67	3764777.30	302.39	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085718	463272.09	3764774.56	302.05	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085719	463274.52	3764771.83	301.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085720	463276.95	3764769.09	301.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085721	463279.38	3764766.36	300.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085722	463281.81	3764763.62	300.58	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085723	463284.24	3764760.89	300.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085724	463286.66	3764758.15	299.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085725	463289.09	3764755.42	299.74	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085726	463291.52	3764752.68	299.63	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085727	463293.95	3764749.95	299.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085728	463296.38	3764747.21	299.45	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085729	463298.81	3764744.48	299.37	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085730	463301.24	3764741.74	299.31	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085731	463303.66	3764739.01	299.25	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085732	463306.09	3764736.27	299.21	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085733	463308.52	3764733.54	299.19	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085734	463310.95	3764730.80	299.16	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085735	463313.38	3764728.07	299.14	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085736	463315.81	3764725.33	299.11	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE2	L0085737	463318.23	3764722.60	299.09	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085738	463320.66	3764719.86	299.07	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085739	463323.09	3764717.13	299.04	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085740	463325.52	3764714.39	299.02	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085741	463327.95	3764711.66	299.00	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085742	463330.38	3764708.92	298.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085743	463332.81	3764706.19	298.95	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085744	463335.23	3764703.45	298.93	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085745	463337.66	3764700.72	298.90	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085746	463340.09	3764697.98	298.88	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085747	463342.52	3764695.25	298.85	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085748	463344.95	3764692.51	298.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085749	463347.38	3764689.77	298.79	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085750	463349.80	3764687.04	298.76	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085751	463352.23	3764684.30	298.72	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085752	463354.66	3764681.57	298.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085753	463357.09	3764678.83	298.66	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085754	463359.52	3764676.10	298.62	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085755	463361.95	3764673.36	298.52	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085756	463364.37	3764670.63	298.40	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085757	463366.80	3764667.89	298.15	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085758	463369.23	3764665.16	297.80	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085759	463371.66	3764662.42	297.41	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085760	463374.09	3764659.69	296.97	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085761	463376.52	3764656.95	296.50	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE2	L0085762	463378.95	3764654.22	295.98	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085763	463381.37	3764651.48	295.42	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085764	463383.80	3764648.75	294.82	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085765	463386.23	3764646.01	294.17	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085766	463388.66	3764643.28	293.54	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085767	463391.09	3764640.54	292.99	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085768	463393.52	3764637.81	292.61	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085769	463395.94	3764635.07	292.26	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085770	463398.37	3764632.34	291.96	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085771	463400.80	3764629.60	291.69	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70
	L0085772	463403.23	3764626.87	291.46	0.00	4.49E-9	3.66	Surface-Based	1.70	1.70

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0085773	461359.84	3764312.22	291.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085774	461362.90	3764314.21	291.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085775	461365.97	3764316.20	291.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085776	461369.04	3764318.19	291.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085777	461372.11	3764320.18	291.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085778	461375.18	3764322.17	291.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085779	461378.25	3764324.16	292.12	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085780	461381.32	3764326.15	292.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085781	461384.39	3764328.14	292.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085782	461387.46	3764330.13	292.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085783	461390.53	3764332.12	292.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085784	461393.59	3764334.11	292.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0085785	461396.66	3764336.10	292.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085786	461399.73	3764338.09	293.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085787	461402.80	3764340.08	293.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085788	461405.87	3764342.07	293.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085789	461408.94	3764344.06	293.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085790	461412.01	3764346.05	293.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085791	461415.08	3764348.04	293.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085792	461418.15	3764350.03	294.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085793	461421.21	3764352.02	294.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085794	461424.28	3764354.01	294.24	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085795	461427.35	3764355.99	294.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085796	461430.42	3764357.98	294.44	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085797	461433.49	3764359.97	294.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085798	461436.56	3764361.96	294.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085799	461439.63	3764363.95	294.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085800	461442.70	3764365.94	294.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085801	461445.77	3764367.93	294.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085802	461448.84	3764369.92	295.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085803	461451.90	3764371.91	295.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085804	461454.97	3764373.90	295.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085805	461458.04	3764375.89	295.24	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085806	461461.11	3764377.88	295.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085807	461464.18	3764379.87	295.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085808	461467.25	3764381.86	295.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085809	461470.32	3764383.85	295.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085810	461473.39	3764385.84	295.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085811	461476.46	3764387.83	295.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085812	461479.52	3764389.82	295.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085813	461482.59	3764391.81	296.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085814	461485.66	3764393.80	296.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085815	461488.73	3764395.79	296.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085816	461491.80	3764397.78	296.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085817	461494.87	3764399.77	296.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085818	461497.94	3764401.76	296.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085819	461501.01	3764403.75	296.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085820	461504.08	3764405.74	297.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085821	461507.15	3764407.73	297.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085822	461510.21	3764409.72	297.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085823	461513.28	3764411.71	297.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085824	461516.35	3764413.70	297.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085825	461519.42	3764415.69	298.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085826	461522.49	3764417.68	298.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085827	461525.56	3764419.67	298.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085828	461528.63	3764421.66	299.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085829	461531.70	3764423.65	299.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085830	461534.77	3764425.64	299.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085831	461537.83	3764427.63	299.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085832	461540.90	3764429.62	300.20	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085833	461543.97	3764431.61	300.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085834	461547.04	3764433.60	300.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085835	461550.11	3764435.59	300.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085836	461553.18	3764437.58	301.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085837	461556.25	3764439.57	301.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085838	461559.32	3764441.56	301.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085839	461562.39	3764443.55	301.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085840	461565.46	3764445.54	302.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085841	461568.52	3764447.53	302.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085842	461571.59	3764449.52	302.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085843	461574.66	3764451.51	302.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085844	461577.73	3764453.50	303.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085845	461580.80	3764455.49	303.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085846	461583.87	3764457.48	303.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085847	461586.94	3764459.47	303.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085848	461590.01	3764461.46	304.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085849	461593.08	3764463.45	304.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085850	461596.14	3764465.44	304.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085851	461599.21	3764467.43	305.12	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085852	461602.28	3764469.42	305.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085853	461605.35	3764471.41	306.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085854	461608.42	3764473.40	306.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085855	461611.49	3764475.39	306.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085856	461614.56	3764477.38	307.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085857	461617.63	3764479.37	307.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085858	461620.70	3764481.36	307.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085859	461623.77	3764483.35	308.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085860	461626.83	3764485.34	308.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085861	461629.90	3764487.33	309.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085862	461632.97	3764489.32	309.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085863	461636.04	3764491.31	309.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085864	461639.11	3764493.30	309.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085865	461642.18	3764495.29	310.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085866	461645.25	3764497.28	310.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085867	461648.32	3764499.27	310.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085868	461651.39	3764501.26	311.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085869	461654.45	3764503.25	312.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085870	461657.52	3764505.24	312.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085871	461660.59	3764507.23	313.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085872	461663.66	3764509.22	314.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085873	461666.73	3764511.21	314.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085874	461669.80	3764513.20	315.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085875	461672.87	3764515.18	315.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085876	461675.94	3764517.17	316.55	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085877	461679.01	3764519.16	317.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085878	461682.08	3764521.15	317.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085879	461685.14	3764523.14	318.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085880	461688.21	3764525.13	318.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085881	461691.28	3764527.12	319.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085882	461694.35	3764529.11	319.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085883	461697.42	3764531.10	320.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085884	461700.49	3764533.09	320.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0085885	461703.56	3764535.08	319.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085886	461706.63	3764537.07	319.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085887	461709.70	3764539.06	319.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085888	461712.76	3764541.05	319.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085889	461715.83	3764543.04	319.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085890	461718.90	3764545.03	319.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085891	461721.97	3764547.02	318.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085892	461725.04	3764549.01	318.44	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085893	461728.11	3764551.00	318.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085894	461731.18	3764552.99	317.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085895	461734.25	3764554.98	317.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085896	461737.32	3764556.97	316.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085897	461740.39	3764558.96	316.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085898	461743.45	3764560.95	316.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085899	461746.52	3764562.94	316.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085900	461749.59	3764564.93	316.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085901	461752.66	3764566.92	316.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085902	461755.73	3764568.91	316.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085903	461758.80	3764570.90	316.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085904	461761.87	3764572.89	316.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085905	461764.94	3764574.88	316.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085906	461768.01	3764576.87	316.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085907	461771.07	3764578.86	316.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085908	461774.14	3764580.85	316.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085909	461777.21	3764582.84	316.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085910	461780.28	3764584.83	316.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085911	461783.35	3764586.82	317.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085912	461786.42	3764588.81	317.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085913	461789.49	3764590.80	317.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085914	461792.56	3764592.79	317.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085915	461795.63	3764594.78	317.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085916	461798.70	3764596.77	317.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085917	461801.76	3764598.76	318.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085918	461804.83	3764600.75	318.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085919	461807.90	3764602.74	318.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085920	461810.97	3764604.73	319.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085921	461814.04	3764606.72	319.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085922	461817.11	3764608.71	319.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085923	461820.18	3764610.70	319.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085924	461823.25	3764612.69	320.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085925	461826.32	3764614.68	320.44	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085926	461829.38	3764616.67	320.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085927	461832.45	3764618.66	320.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085928	461835.52	3764620.65	321.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085929	461838.59	3764622.64	321.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085930	461841.66	3764624.63	321.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085931	461844.73	3764626.62	321.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085932	461847.80	3764628.61	321.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085933	461850.87	3764630.60	321.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085934	461853.94	3764632.59	322.01	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085935	461857.01	3764634.58	322.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085936	461860.07	3764636.57	322.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085937	461863.14	3764638.56	322.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085938	461866.21	3764640.55	322.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085939	461869.28	3764642.54	322.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085940	461872.35	3764644.53	322.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085941	461875.42	3764646.52	322.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085942	461878.49	3764648.51	322.24	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085943	461881.56	3764650.50	322.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085944	461884.63	3764652.49	322.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085945	461887.69	3764654.48	322.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085946	461890.76	3764656.47	322.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085947	461893.83	3764658.46	322.94	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085948	461896.90	3764660.45	323.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085949	461899.97	3764662.44	323.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085950	461903.04	3764664.43	323.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085951	461906.11	3764666.42	323.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085952	461909.18	3764668.41	323.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085953	461912.25	3764670.40	323.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085954	461915.32	3764672.39	323.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085955	461918.38	3764674.38	324.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085956	461921.45	3764676.36	324.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085957	461924.52	3764678.35	324.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085958	461927.59	3764680.34	324.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085959	461930.66	3764682.33	324.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085960	461933.73	3764684.32	324.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085961	461936.80	3764686.31	325.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085962	461939.87	3764688.30	325.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085963	461942.94	3764690.29	325.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085964	461946.00	3764692.28	325.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085965	461949.07	3764694.27	325.90	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085966	461952.14	3764696.26	326.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085967	461955.21	3764698.25	326.29	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085968	461958.28	3764700.24	326.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085969	461961.35	3764702.23	326.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085970	461964.42	3764704.22	326.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085971	461967.49	3764706.21	326.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085972	461970.56	3764708.20	326.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085973	461973.63	3764710.19	326.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085974	461976.69	3764712.18	327.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085975	461979.76	3764714.17	327.24	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085976	461982.83	3764716.16	327.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085977	461985.90	3764718.15	327.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085978	461988.97	3764720.14	327.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085979	461992.04	3764722.13	327.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085980	461995.11	3764724.12	327.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085981	461998.18	3764726.11	328.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085982	462001.25	3764728.10	328.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085983	462004.31	3764730.09	328.55	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085984	462007.38	3764732.08	328.80	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0085985	462010.45	3764734.07	329.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085986	462013.52	3764736.06	329.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085987	462016.59	3764738.05	329.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085988	462019.66	3764740.04	329.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085989	462022.73	3764742.03	330.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085990	462025.80	3764744.02	330.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085991	462028.87	3764746.01	331.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085992	462031.94	3764748.00	331.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085993	462035.00	3764749.99	332.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085994	462038.07	3764751.98	332.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085995	462041.14	3764753.97	333.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085996	462044.21	3764755.96	333.94	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085997	462047.28	3764757.95	334.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085998	462050.35	3764759.94	335.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0085999	462053.42	3764761.93	335.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086000	462056.49	3764763.92	336.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086001	462059.56	3764765.91	336.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086002	462062.62	3764767.90	336.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086003	462065.69	3764769.89	337.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086004	462068.76	3764771.88	337.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086005	462071.83	3764773.87	337.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086006	462074.90	3764775.86	338.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086007	462077.97	3764777.85	338.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086008	462079.71	3764780.73	339.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086009	462080.37	3764784.32	339.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086010	462081.02	3764787.92	340.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086011	462081.68	3764791.52	341.12	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086012	462082.34	3764795.12	341.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086013	462083.00	3764798.72	342.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086014	462083.66	3764802.31	343.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086015	462084.32	3764805.91	343.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086016	462084.98	3764809.51	344.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086017	462085.63	3764813.11	345.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086018	462086.29	3764816.70	345.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086019	462086.95	3764820.30	346.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086020	462087.61	3764823.90	347.01	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086021	462088.27	3764827.50	347.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086022	462088.93	3764831.10	348.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086023	462089.59	3764834.69	348.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086024	462090.24	3764838.29	349.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086025	462090.90	3764841.89	349.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086026	462091.56	3764845.49	350.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086027	462092.22	3764849.09	350.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086028	462092.88	3764852.68	351.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086029	462093.54	3764856.28	351.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086030	462094.19	3764859.88	352.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086031	462094.85	3764863.48	353.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086032	462095.51	3764867.07	353.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086033	462096.17	3764870.67	353.84	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086034	462096.83	3764874.27	354.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086035	462097.49	3764877.87	354.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086036	462098.15	3764881.47	354.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086037	462098.80	3764885.06	355.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086038	462099.46	3764888.66	355.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086039	462100.12	3764892.26	356.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086040	462100.78	3764895.86	356.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086041	462101.44	3764899.45	356.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086042	462102.10	3764903.05	356.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086043	462102.76	3764906.65	356.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086044	462103.41	3764910.25	356.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086045	462104.07	3764913.85	356.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086046	462104.73	3764917.44	356.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086047	462105.39	3764921.04	356.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086048	462106.05	3764924.64	356.84	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086049	462106.71	3764928.24	356.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086050	462107.36	3764931.84	356.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086051	462108.02	3764935.43	355.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086052	462108.68	3764939.03	355.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086053	462109.34	3764942.63	355.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086054	462110.00	3764946.23	354.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086055	462110.66	3764949.82	354.28	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086056	462111.32	3764953.42	353.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086057	462111.97	3764957.02	353.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086058	462112.63	3764960.62	352.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086059	462113.29	3764964.22	352.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086060	462113.95	3764967.81	351.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086061	462114.61	3764971.41	350.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086062	462115.27	3764975.01	350.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086063	462115.93	3764978.61	349.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086064	462116.58	3764982.20	348.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086065	462117.24	3764985.80	348.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086066	462117.90	3764989.40	347.59	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086067	462118.56	3764993.00	347.28	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086068	462119.22	3764996.60	346.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086069	462119.88	3765000.19	346.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086070	462120.54	3765003.79	346.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086071	462121.19	3765007.39	346.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086072	462121.85	3765010.99	345.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086073	462122.51	3765014.59	345.64	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086074	462123.17	3765018.18	345.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086075	462123.83	3765021.78	345.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086076	462124.49	3765025.38	345.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086077	462125.14	3765028.98	346.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086078	462125.80	3765032.57	346.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086079	462126.46	3765036.17	346.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086080	462127.12	3765039.77	347.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086081	462127.78	3765043.37	347.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086082	462128.44	3765046.97	347.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086083	462129.10	3765050.56	347.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086084	462129.75	3765054.16	348.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086085	462130.41	3765057.76	348.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086086	462131.07	3765061.36	349.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086087	462131.73	3765064.96	350.01	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086088	462132.39	3765068.55	350.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086089	462133.05	3765072.15	351.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086090	462133.71	3765075.75	351.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086091	462134.36	3765079.35	352.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086092	462135.02	3765082.94	352.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086093	462135.68	3765086.54	353.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086094	462136.34	3765090.14	354.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086095	462137.00	3765093.74	354.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086096	462137.66	3765097.34	355.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086097	462138.32	3765100.93	356.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086098	462138.97	3765104.53	356.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086099	462139.63	3765108.13	357.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086100	462140.29	3765111.73	358.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086101	462140.95	3765115.32	358.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086102	462141.61	3765118.92	359.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086103	462142.27	3765122.52	359.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086104	462142.92	3765126.12	360.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086105	462143.58	3765129.72	360.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086106	462144.24	3765133.31	361.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086107	462144.90	3765136.91	361.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086108	462145.56	3765140.51	362.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086109	462146.22	3765144.11	362.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

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ONSITE1	L0086110	462146.88	3765147.71	363.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086111	462147.53	3765151.30	363.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086112	462148.19	3765154.90	364.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086113	462148.85	3765158.50	364.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086114	462149.51	3765162.10	364.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086115	462150.17	3765165.69	365.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086116	462150.83	3765169.29	365.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086117	462151.49	3765172.89	366.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086118	462152.14	3765176.49	366.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086119	462152.80	3765180.09	366.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086120	462153.46	3765183.68	366.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086121	462154.12	3765187.28	366.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086122	462154.78	3765190.88	366.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086123	462155.44	3765194.48	366.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086124	462156.09	3765198.07	366.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086125	462156.75	3765201.67	366.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086126	462157.41	3765205.27	366.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086127	462158.07	3765208.87	366.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086128	462158.73	3765212.47	366.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086129	462159.39	3765216.06	365.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086130	462160.05	3765219.66	365.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086131	462160.70	3765223.26	365.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086132	462161.36	3765226.86	365.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086133	462162.02	3765230.46	365.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086134	462162.68	3765234.05	364.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

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ONSITE1	L0086135	462163.34	3765237.65	364.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086136	462164.00	3765241.25	364.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086137	462164.66	3765244.85	364.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086138	462165.31	3765248.44	364.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086139	462165.97	3765252.04	364.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086140	462166.63	3765255.64	364.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086141	462167.29	3765259.24	364.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086142	462167.95	3765262.84	364.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086143	462168.61	3765266.43	364.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086144	462169.27	3765270.03	364.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086145	462169.92	3765273.63	364.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086146	462170.58	3765277.23	364.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086147	462171.24	3765280.83	364.28	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086148	462171.90	3765284.42	364.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086149	462172.56	3765288.02	364.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086150	462173.22	3765291.62	363.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086151	462173.87	3765295.22	363.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086152	462174.53	3765298.81	363.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086153	462175.19	3765302.41	363.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086154	462175.85	3765306.01	362.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086155	462176.51	3765309.61	362.24	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086156	462177.17	3765313.21	361.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086157	462177.83	3765316.80	361.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086158	462178.48	3765320.40	360.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086159	462179.14	3765324.00	360.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

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ONSITE1	L0086160	462179.80	3765327.60	360.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086161	462180.46	3765331.19	359.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086162	462181.12	3765334.79	359.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086163	462181.78	3765338.39	359.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086164	462182.44	3765341.99	359.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086165	462183.09	3765345.59	358.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086166	462183.75	3765349.18	358.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086167	462184.41	3765352.78	358.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086168	462185.35	3765356.16	358.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086169	462188.66	3765357.72	358.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086170	462191.97	3765359.27	358.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086171	462195.28	3765360.82	358.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086172	462198.60	3765362.37	359.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086173	462201.91	3765363.93	359.64	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086174	462205.22	3765365.48	360.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086175	462208.53	3765367.03	360.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086176	462211.84	3765368.58	360.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086177	462215.16	3765370.14	361.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086178	462218.47	3765371.69	361.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086179	462221.78	3765373.24	361.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086180	462225.09	3765374.79	362.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086181	462228.40	3765376.35	362.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086182	462231.71	3765377.90	362.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086183	462235.03	3765379.45	363.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086184	462238.34	3765381.00	363.51	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086185	462241.65	3765382.55	363.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086186	462244.96	3765384.11	363.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086187	462248.27	3765385.66	364.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086188	462251.59	3765387.21	364.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086189	462254.90	3765388.76	364.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086190	462258.21	3765390.32	364.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086191	462261.52	3765391.87	364.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086192	462264.83	3765393.42	365.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086193	462268.14	3765394.97	365.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086194	462271.46	3765396.53	365.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086195	462274.77	3765398.08	365.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086196	462278.08	3765399.63	365.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086197	462281.39	3765401.18	366.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086198	462284.70	3765402.74	366.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086199	462288.02	3765404.29	366.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086200	462291.33	3765405.84	366.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086201	462294.64	3765407.39	366.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086202	462297.95	3765408.95	367.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086203	462301.26	3765410.50	367.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086204	462304.57	3765412.05	367.27	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086205	462307.89	3765413.60	367.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086206	462311.20	3765415.16	367.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086207	462314.51	3765416.71	367.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086208	462317.82	3765418.26	367.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086209	462321.13	3765419.81	367.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086210	462324.45	3765421.36	368.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086211	462327.76	3765422.92	368.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086212	462331.07	3765424.47	369.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086213	462334.38	3765426.02	369.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086214	462337.69	3765427.57	369.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086215	462341.00	3765429.13	370.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086216	462344.32	3765430.68	370.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086217	462347.63	3765432.23	370.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086218	462350.94	3765433.78	371.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086219	462354.25	3765435.34	371.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086220	462357.56	3765436.89	371.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086221	462360.88	3765438.44	372.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086222	462364.19	3765439.99	372.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086223	462367.50	3765441.55	373.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086224	462370.81	3765443.10	373.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086225	462374.12	3765444.65	373.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086226	462377.44	3765445.80	374.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086227	462380.76	3765444.27	374.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086228	462384.08	3765442.75	374.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086229	462387.41	3765441.22	374.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086230	462390.73	3765439.70	374.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086231	462394.06	3765438.17	375.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086232	462397.38	3765436.64	375.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086233	462400.70	3765435.12	375.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086234	462404.03	3765433.59	375.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086235	462407.35	3765432.07	375.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086236	462410.68	3765430.54	375.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086237	462414.00	3765429.02	376.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086238	462417.33	3765427.49	376.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086239	462420.65	3765425.96	376.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086240	462423.97	3765424.44	376.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086241	462427.30	3765422.91	376.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086242	462430.62	3765421.39	376.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086243	462433.95	3765419.86	377.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086244	462437.27	3765418.33	377.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086245	462440.59	3765416.81	377.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086246	462443.92	3765415.28	377.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086247	462447.24	3765413.76	378.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086248	462450.57	3765412.23	378.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086249	462453.89	3765410.71	378.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086250	462457.21	3765409.18	378.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086251	462460.54	3765407.65	378.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086252	462463.86	3765406.13	378.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086253	462467.19	3765404.60	378.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086254	462470.51	3765403.08	379.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086255	462473.84	3765401.55	379.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086256	462477.16	3765400.03	379.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086257	462480.48	3765398.50	379.68	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086258	462483.81	3765396.97	379.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086259	462487.13	3765395.45	380.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086260	462490.46	3765393.92	380.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086261	462493.78	3765392.40	380.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086262	462497.10	3765390.87	380.80	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086263	462500.43	3765389.34	381.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086264	462503.75	3765387.82	381.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086265	462507.08	3765386.29	381.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086266	462510.40	3765384.77	381.90	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086267	462513.73	3765383.24	382.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086268	462517.05	3765381.72	382.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086269	462520.37	3765380.19	382.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086270	462523.70	3765378.66	383.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086271	462527.02	3765377.14	383.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086272	462530.35	3765375.61	383.59	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086273	462533.67	3765374.09	383.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086274	462536.99	3765372.56	384.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086275	462540.32	3765371.03	384.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086276	462543.64	3765369.51	384.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086277	462546.97	3765367.98	384.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086278	462550.29	3765366.46	385.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086279	462553.61	3765364.93	385.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086280	462556.94	3765363.41	385.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086281	462560.26	3765361.88	386.01	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086282	462563.59	3765360.35	386.27	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086283	462566.91	3765358.83	386.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086284	462570.24	3765357.30	386.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086285	462573.56	3765355.78	387.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086286	462576.88	3765354.25	387.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086287	462580.21	3765352.72	387.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086288	462583.53	3765351.20	387.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086289	462586.86	3765349.67	388.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086290	462590.18	3765348.15	388.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086291	462593.50	3765346.62	388.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086292	462596.83	3765345.10	388.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086293	462600.15	3765343.57	388.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086294	462603.48	3765342.04	388.92	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086295	462606.80	3765340.52	388.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086296	462610.13	3765338.99	388.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086297	462613.45	3765337.47	388.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086298	462616.77	3765335.94	388.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086299	462620.10	3765334.41	387.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086300	462623.42	3765332.89	387.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086301	462626.75	3765331.36	386.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086302	462630.07	3765329.84	386.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086303	462633.39	3765328.31	385.77	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086304	462636.72	3765326.79	385.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086305	462640.04	3765325.26	384.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086306	462643.37	3765323.73	383.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086307	462646.69	3765322.21	383.20	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086308	462650.01	3765320.68	382.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086309	462653.34	3765319.16	382.06	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086310	462656.66	3765317.63	381.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086311	462659.99	3765316.10	381.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086312	462663.31	3765314.58	380.45	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086313	462666.64	3765313.05	379.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086314	462669.96	3765311.53	379.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086315	462673.28	3765310.00	378.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086316	462676.61	3765308.48	378.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086317	462679.93	3765306.95	377.55	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086318	462683.26	3765305.42	376.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086319	462686.58	3765303.90	376.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086320	462689.90	3765302.37	375.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086321	462693.23	3765300.85	375.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086322	462696.55	3765299.32	374.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086323	462699.88	3765297.79	374.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086324	462703.20	3765296.27	374.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086325	462706.53	3765294.74	374.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086326	462709.85	3765293.22	374.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086327	462713.17	3765291.69	374.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086328	462716.50	3765290.17	374.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086329	462719.82	3765288.64	375.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086330	462723.15	3765287.11	375.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086331	462726.47	3765285.59	375.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086332	462729.79	3765284.06	375.80	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086333	462733.12	3765282.54	376.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086334	462736.44	3765281.01	376.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086335	462739.77	3765279.48	376.84	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086336	462743.08	3765277.93	377.12	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086337	462745.83	3765275.53	377.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086338	462748.58	3765273.12	377.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086339	462751.33	3765270.71	376.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086340	462754.09	3765268.30	376.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086341	462756.84	3765265.89	375.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086342	462759.59	3765263.48	374.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086343	462762.34	3765261.07	374.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086344	462765.10	3765258.67	373.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086345	462767.85	3765256.26	372.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086346	462770.60	3765253.85	371.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086347	462773.35	3765251.44	371.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086348	462776.11	3765249.03	370.35	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086349	462778.86	3765246.62	369.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086350	462781.61	3765244.21	369.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086351	462784.36	3765241.81	368.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086352	462787.12	3765239.40	368.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086353	462789.87	3765236.99	367.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086354	462792.62	3765234.58	366.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086355	462795.37	3765232.17	366.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086356	462798.13	3765229.76	365.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086357	462800.88	3765227.35	365.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086358	462803.63	3765224.95	364.84	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086359	462806.39	3765222.54	364.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086360	462809.14	3765220.13	363.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086361	462811.89	3765217.72	362.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086362	462814.64	3765215.31	362.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086363	462817.40	3765212.90	361.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086364	462820.15	3765210.50	360.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086365	462822.90	3765208.09	360.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086366	462825.65	3765205.68	359.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086367	462828.41	3765203.27	359.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086368	462831.16	3765200.86	358.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086369	462833.91	3765198.45	358.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086370	462836.66	3765196.04	357.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086371	462839.42	3765193.64	357.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086372	462842.17	3765191.23	356.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086373	462844.92	3765188.82	356.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086374	462847.67	3765186.41	355.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086375	462850.43	3765184.00	355.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086376	462853.18	3765181.59	355.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086377	462855.93	3765179.18	354.78	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086378	462858.69	3765176.78	354.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086379	462861.44	3765174.37	354.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086380	462864.19	3765171.96	353.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086381	462866.94	3765169.55	353.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086382	462869.70	3765167.14	352.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086383	462872.45	3765164.73	352.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086384	462875.20	3765162.32	352.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086385	462877.95	3765159.92	351.68	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086386	462880.71	3765157.51	351.32	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086387	462883.46	3765155.10	350.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086388	462886.21	3765152.69	350.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086389	462888.96	3765150.28	350.20	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086390	462891.72	3765147.87	349.83	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086391	462894.47	3765145.46	349.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086392	462897.22	3765143.06	349.10	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086393	462899.97	3765140.65	348.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086394	462902.73	3765138.24	348.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086395	462905.48	3765135.83	348.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086396	462908.23	3765133.42	347.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086397	462910.99	3765131.01	347.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086398	462913.74	3765128.60	346.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086399	462916.49	3765126.20	346.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086400	462919.24	3765123.79	346.20	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086401	462922.00	3765121.38	345.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086402	462924.75	3765118.97	345.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086403	462927.50	3765116.56	345.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086404	462930.25	3765114.15	344.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086405	462933.01	3765111.74	344.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086406	462935.76	3765109.34	343.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086407	462938.51	3765106.93	343.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086408	462941.26	3765104.52	342.53	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086409	462944.02	3765102.11	342.03	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086410	462946.77	3765099.70	341.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086411	462949.52	3765097.29	341.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086412	462952.27	3765094.88	340.56	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086413	462955.03	3765092.48	340.08	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086414	462957.78	3765090.07	339.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086415	462960.53	3765087.66	339.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086416	462963.28	3765085.25	338.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086417	462966.04	3765082.84	338.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086418	462968.79	3765080.43	337.70	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086419	462971.54	3765078.02	337.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086420	462974.30	3765075.62	336.75	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086421	462977.05	3765073.21	336.30	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086422	462979.80	3765070.80	335.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086423	462982.55	3765068.39	335.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086424	462985.31	3765065.98	334.94	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086425	462988.06	3765063.57	334.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086426	462990.81	3765061.17	334.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086427	462993.56	3765058.76	333.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086428	462996.32	3765056.35	333.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086429	462999.07	3765053.94	332.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086430	463001.82	3765051.53	332.28	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086431	463004.57	3765049.12	331.84	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086432	463007.33	3765046.71	331.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086433	463010.08	3765044.31	331.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086434	463012.83	3765041.90	330.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

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ONSITE1	L0086435	463015.58	3765039.49	330.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086436	463018.34	3765037.08	329.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086437	463021.09	3765034.67	329.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086438	463023.84	3765032.26	329.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086439	463026.60	3765029.85	328.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086440	463029.35	3765027.45	328.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086441	463032.10	3765025.04	328.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086442	463034.85	3765022.63	327.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086443	463037.61	3765020.22	327.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086444	463040.36	3765017.81	327.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086445	463043.11	3765015.40	326.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086446	463045.86	3765012.99	326.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086447	463048.62	3765010.59	326.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086448	463051.37	3765008.18	326.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086449	463054.12	3765005.77	325.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086450	463056.87	3765003.36	325.38	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086451	463059.63	3765000.95	325.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086452	463062.38	3764998.54	324.78	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086453	463065.13	3764996.13	324.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086454	463067.88	3764993.73	324.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086455	463070.64	3764991.32	323.89	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086456	463073.39	3764988.91	323.59	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086457	463076.14	3764986.50	323.29	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086458	463078.90	3764984.09	322.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086459	463081.65	3764981.68	322.68	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

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ONSITE1	L0086460	463084.40	3764979.27	322.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086461	463087.15	3764976.87	322.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086462	463089.91	3764974.46	321.87	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086463	463092.66	3764972.05	321.60	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086464	463095.41	3764969.64	321.34	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086465	463098.16	3764967.23	321.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086466	463100.92	3764964.82	320.81	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086467	463103.67	3764962.41	320.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086468	463106.42	3764960.01	320.27	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086469	463109.17	3764957.60	320.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086470	463111.82	3764955.08	319.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086471	463114.25	3764952.34	319.45	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086472	463116.67	3764949.61	319.18	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086473	463119.10	3764946.87	318.91	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086474	463121.53	3764944.14	318.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086475	463123.96	3764941.40	318.36	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086476	463126.39	3764938.67	318.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086477	463128.82	3764935.93	317.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086478	463131.25	3764933.20	317.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086479	463133.67	3764930.46	317.27	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086480	463136.10	3764927.73	317.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086481	463138.53	3764924.99	316.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086482	463140.96	3764922.26	316.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086483	463143.39	3764919.52	316.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086484	463145.82	3764916.79	315.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086485	463148.24	3764914.05	315.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086486	463150.67	3764911.32	315.45	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086487	463153.10	3764908.58	315.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086488	463155.53	3764905.85	314.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086489	463157.96	3764903.11	314.67	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086490	463160.39	3764900.38	314.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086491	463162.81	3764897.64	314.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086492	463165.24	3764894.91	313.90	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086493	463167.67	3764892.17	313.65	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086494	463170.10	3764889.44	313.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086495	463172.53	3764886.70	313.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086496	463174.96	3764883.97	312.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086497	463177.39	3764881.23	312.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086498	463179.81	3764878.50	312.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086499	463182.24	3764875.76	312.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086500	463184.67	3764873.03	311.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086501	463187.10	3764870.29	311.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086502	463189.53	3764867.56	311.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086503	463191.96	3764864.82	311.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086504	463194.38	3764862.09	310.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086505	463196.81	3764859.35	310.71	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086506	463199.24	3764856.62	310.47	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086507	463201.67	3764853.88	310.23	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086508	463204.10	3764851.15	309.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086509	463206.53	3764848.41	309.73	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086510	463208.95	3764845.68	309.48	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086511	463211.38	3764842.94	309.22	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086512	463213.81	3764840.21	308.86	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086513	463216.24	3764837.47	308.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086514	463218.67	3764834.73	307.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086515	463221.10	3764832.00	307.49	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086516	463223.53	3764829.26	307.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086517	463225.95	3764826.53	306.55	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086518	463228.38	3764823.79	306.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086519	463230.81	3764821.06	305.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086520	463233.24	3764818.32	305.33	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086521	463235.67	3764815.59	304.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086522	463238.10	3764812.85	304.64	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086523	463240.52	3764810.12	304.45	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086524	463242.95	3764807.38	304.28	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086525	463245.38	3764804.65	304.13	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086526	463247.81	3764801.91	304.01	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086527	463250.24	3764799.18	303.90	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086528	463252.67	3764796.44	303.80	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086529	463255.10	3764793.71	303.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086530	463257.52	3764790.97	303.57	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086531	463259.95	3764788.24	303.43	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086532	463262.38	3764785.50	303.27	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086533	463264.81	3764782.77	303.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086534	463267.24	3764780.03	302.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086535	463269.67	3764777.30	302.39	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086536	463272.09	3764774.56	302.05	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086537	463274.52	3764771.83	301.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086538	463276.95	3764769.09	301.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086539	463279.38	3764766.36	300.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086540	463281.81	3764763.62	300.58	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086541	463284.24	3764760.89	300.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086542	463286.66	3764758.15	299.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086543	463289.09	3764755.42	299.74	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086544	463291.52	3764752.68	299.63	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086545	463293.95	3764749.95	299.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086546	463296.38	3764747.21	299.45	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086547	463298.81	3764744.48	299.37	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086548	463301.24	3764741.74	299.31	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086549	463303.66	3764739.01	299.25	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086550	463306.09	3764736.27	299.21	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086551	463308.52	3764733.54	299.19	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086552	463310.95	3764730.80	299.16	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086553	463313.38	3764728.07	299.14	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086554	463315.81	3764725.33	299.11	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086555	463318.23	3764722.60	299.09	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086556	463320.66	3764719.86	299.07	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086557	463323.09	3764717.13	299.04	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086558	463325.52	3764714.39	299.02	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086559	463327.95	3764711.66	299.00	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086560	463330.38	3764708.92	298.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086561	463332.81	3764706.19	298.95	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086562	463335.23	3764703.45	298.93	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086563	463337.66	3764700.72	298.90	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086564	463340.09	3764697.98	298.88	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086565	463342.52	3764695.25	298.85	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086566	463344.95	3764692.51	298.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086567	463347.38	3764689.77	298.79	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086568	463349.80	3764687.04	298.76	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086569	463352.23	3764684.30	298.72	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086570	463354.66	3764681.57	298.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086571	463357.09	3764678.83	298.66	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086572	463359.52	3764676.10	298.62	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086573	463361.95	3764673.36	298.52	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086574	463364.37	3764670.63	298.40	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086575	463366.80	3764667.89	298.15	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086576	463369.23	3764665.16	297.80	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086577	463371.66	3764662.42	297.41	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086578	463374.09	3764659.69	296.97	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086579	463376.52	3764656.95	296.50	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086580	463378.95	3764654.22	295.98	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086581	463381.37	3764651.48	295.42	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086582	463383.80	3764648.75	294.82	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086583	463386.23	3764646.01	294.17	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086584	463388.66	3764643.28	293.54	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ONSITE1	L0086585	463391.09	3764640.54	292.99	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086586	463393.52	3764637.81	292.61	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086587	463395.94	3764635.07	292.26	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086588	463398.37	3764632.34	291.96	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086589	463400.80	3764629.60	291.69	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70
	L0086590	463403.23	3764626.87	291.46	3.11	1.63E-7	3.66	Surface-Based	1.70	1.70

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	460178.00	3762570.00	8	10	500.00	500.00

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	461830.67	3763731.59		318.75	
2	462018.48	3763743.11		348.15	
3	461888.52	3764798.07		329.96	
4	461974.32	3764838.71		335.52	
5	462066.15	3765088.60		346.13	
6	462075.18	3765184.95		356.35	
7	462154.66	3765361.50		357.04	
8	462108.61	3765265.86		357.68	
9	462259.17	3765451.83		373.76	
10	462379.61	3765466.00		375.05	
11	462571.99	3765436.88		390.15	
12	462257.74	3765453.87		373.88	
13	462058.99	3764694.79		334.56	
14	461923.91	3764627.25		326.70	
15	461932.80	3764365.79		359.37	

Plant Boundary Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\Users\Tyler Klassen\Dropbox (MD Acoustics)\MD Team\Active Jobs\0971 - FirstCarbon\09712201_Rio Vist

Format Type: Default AERMET format

Profile Met Data

Filename: C:\Users\Tyler Klassen\Dropbox (MD Acoustics)\MD Team\Active Jobs\0971 - FirstCarbon\09712201_Rio Vis

Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 0.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2012			
Upper Air		2012			

Data Period

Data Period to Process

Start Date: 1/1/2012 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: RIO VISTA AERMOD.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

Results Summary

C:\Lakes\AERMOD View\Projects\Rio Vista\Rio Vista.isc

DPM - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.34645	ug/m^3	460178.00	3763570.00	276.50	0.00	579.20	8/29/2013, 6
PERIOD		0.05079	ug/m^3	460178.00	3763570.00	276.50	0.00	579.20	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\Projects\Rio Vista\Rio Vista.isc

DPM - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.01545	ug/m^3	REC1	461830.67	3763731.59	318.75	0.00	525.86	8/25/2014, 3
1-HR	1ST	0.00596	ug/m^3		462018.48	3763743.11	348.15	0.00	525.86	8/29/2013, 7
1-HR	1ST	0.01485	ug/m^3		461888.52	3764798.07	329.96	0.00	579.24	6/28/2013, 3
1-HR	1ST	0.01810	ug/m^3		461974.32	3764838.71	335.52	0.00	579.24	5/8/2013, 6
1-HR	1ST	0.01778	ug/m^3		462066.15	3765088.60	346.13	0.00	579.24	5/15/2013, 6
1-HR	1ST	0.02341	ug/m^3		462075.18	3765184.95	356.35	0.00	579.24	8/25/2013, 6
1-HR	1ST	0.02687	ug/m^3		462154.66	3765361.50	357.04	0.00	579.24	5/9/2013, 6
1-HR	1ST	0.02411	ug/m^3		462108.61	3765265.86	357.68	0.00	579.24	5/15/2012, 6
1-HR	1ST	0.03291	ug/m^3		462259.17	3765451.83	373.76	0.00	579.24	3/30/2012, 7
1-HR	1ST	0.03975	ug/m^3		462379.61	3765466.00	375.05	0.00	579.24	7/10/2012, 6
1-HR	1ST	0.01785	ug/m^3		462571.99	3765436.88	390.15	0.00	523.41	6/29/2013, 6
1-HR	1ST	0.03259	ug/m^3		462257.74	3765453.87	373.88	0.00	579.24	7/12/2014, 6
1-HR	1ST	0.02878	ug/m^3		462058.99	3764694.79	334.56	0.00	579.24	12/23/2016, 8
1-HR	1ST	0.02340	ug/m^3		461923.91	3764627.25	326.70	0.00	579.24	6/12/2012, 3
1-HR	1ST	0.00942	ug/m^3		461932.80	3764365.79	359.37	0.00	525.86	7/24/2015, 6
PERIOD		0.00058	ug/m^3	REC1	461830.67	3763731.59	318.75	0.00	525.86	
PERIOD		0.00028	ug/m^3		462018.48	3763743.11	348.15	0.00	525.86	
PERIOD		0.00163	ug/m^3		461888.52	3764798.07	329.96	0.00	579.24	
PERIOD		0.00208	ug/m^3		461974.32	3764838.71	335.52	0.00	579.24	
PERIOD		0.00241	ug/m^3		462066.15	3765088.60	346.13	0.00	579.24	

Sensitive Receptor Summary

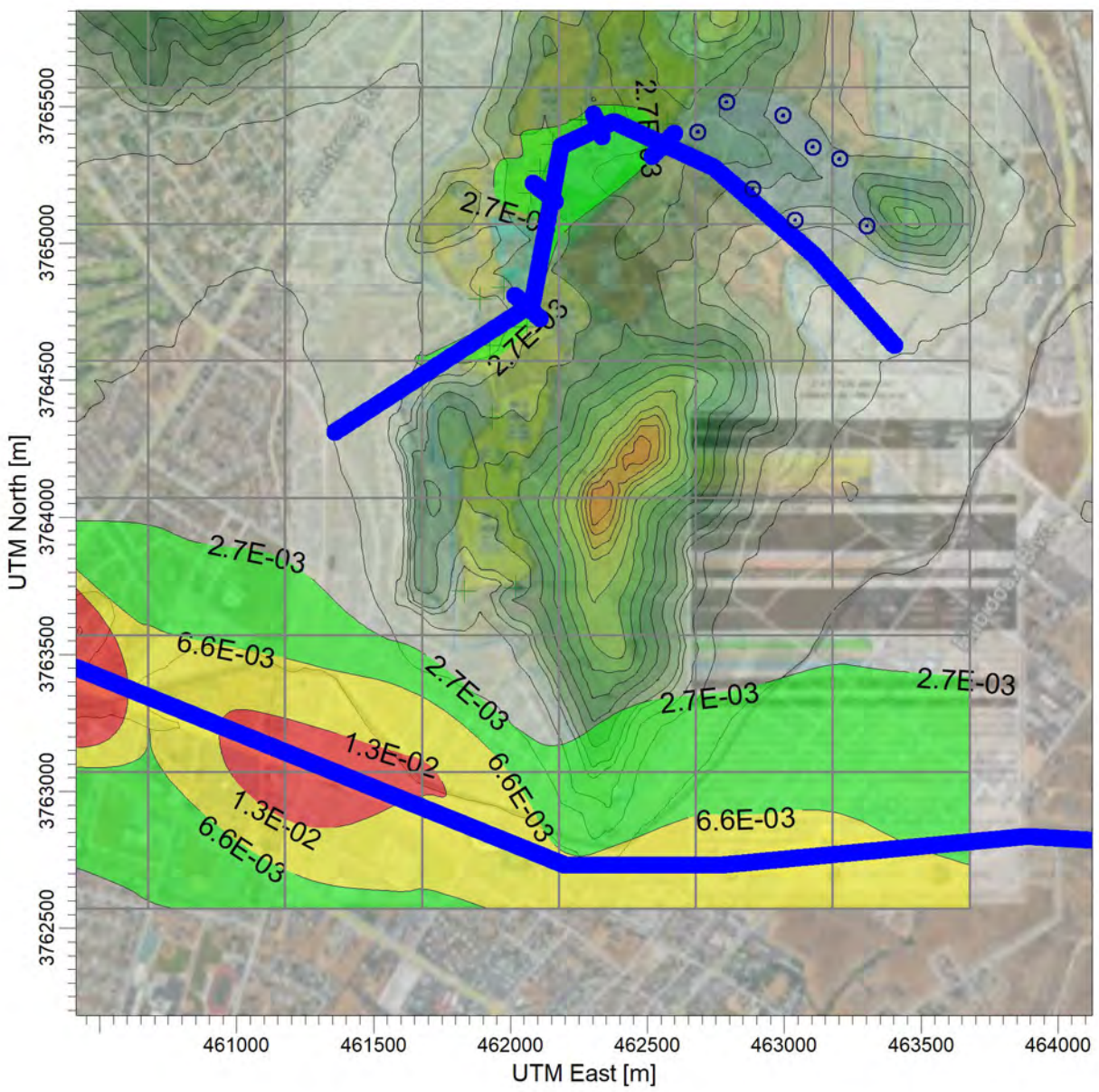
C:\Lakes\AERMOD View\Projects\Rio Vista\Rio Vista.isc

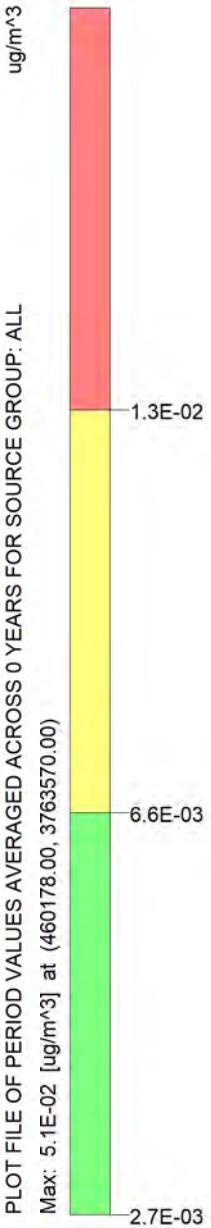
DPM - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00373	ug/m^3		462075.18	3765184.95	356.35	0.00	579.24	
PERIOD		0.00338	ug/m^3		462154.66	3765361.50	357.04	0.00	579.24	
PERIOD		0.00299	ug/m^3		462108.61	3765265.86	357.68	0.00	579.24	
PERIOD		0.00290	ug/m^3		462259.17	3765451.83	373.76	0.00	579.24	
PERIOD		0.00393	ug/m^3		462379.61	3765466.00	375.05	0.00	579.24	
PERIOD		0.00222	ug/m^3		462571.99	3765436.88	390.15	0.00	523.41	
PERIOD		0.00278	ug/m^3		462257.74	3765453.87	373.88	0.00	579.24	
PERIOD		0.00281	ug/m^3		462058.99	3764694.79	334.56	0.00	579.24	
PERIOD		0.00338	ug/m^3		461923.91	3764627.25	326.70	0.00	579.24	
PERIOD		0.00034	ug/m^3		461932.80	3764365.79	359.37	0.00	525.86	

PROJECT TITLE:

C:\Lakes\AERMOD View\Projects\Rio Vista\Rio Vista.isc





COMMENTS:

SOURCES:

19

RECEPTORS:

95

OUTPUT TYPE:

Concentration

MAX:

5.1E-02 ug/m^3

COMPANY NAME:

MODELER:

DATE:

5/30/2022

SCALE: 1:25,000

0 0.5 km

PROJECT NO.:

Rio Vista

Estimation of DPM Emissions Along US 60

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Project Trips	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks
Riverside County, Rubidoux Blvd	145000	11759	133241	91.9%	8.1%

Adjusted Fleet Mix

	Riverside County CalEEMod Fleet Mix	Daily Trips
LDA	54.3%	78755
LDT1	6.1%	8809
LDT2	18.5%	26790
MDV	13.0%	18887
Total	91.9%	133241
LHD1	2.4%	3455
LHD2	0.6%	921
Total	3.0%	4377
MHDT	1.2%	1699
HHDT	0.9%	1325

Diesel Vehicle Distribution (from URBEMIS: 2023 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.5%	132
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	18.8%	650
LHDT2	40.0%	368
MHDT	77.8%	1322
HHDT	100.0%	1325

Vehicle Speed/1-year Average DPM Emission Factor (2034) from EMFAC2021 for the Riverside Region

	Speed (mph)	Emission Factor (g/mi)
LDA	55	0.001001
LDT1	55	0.004200
LDT2	55	0.003165
MDV	55	0.007679
LHDT1	55	0.011588
LHDT2	55	0.001257
MHDT	55	0.009910
HHDT	55	0.021531

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 4828.0 meters or
3.000 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)
LDA	0.0	0.00E+00
LDT1	1.7	1.93E-05
LDT2	0.0	0.00E+00
MDV	0.0	0.00E+00
LHDT1	22.6	2.61E-04
LHDT2	1.4	1.61E-05
MHDT	39.3	4.55E-04
HHDT	85.6	9.90E-04
Total	150.5	**1.74E-03**

Rio Vista

Estimation of DPM Emissions Onsite

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Project Trips	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks
Onsite Roadway	37315	3026	34289	91.9%	8.1%

Adjusted Fleet Mix

	Riverside County CalEEMod Fleet Mix	Daily Trips
LDA	54.3%	20267
LDT1	6.1%	2267
LDT2	18.5%	6894
MDV	13.0%	4861
Total	91.9%	34289
LHD1	2.4%	889
LHD2	0.6%	237
Total	3.0%	1126
MHDT	1.2%	437
HHDT	0.9%	341

Diesel Vehicle Distribution (from URBEMIS: 2023 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.5%	34
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	18.8%	167
LHDT2	40.0%	95
MHDT	77.8%	340
HHDT	100.0%	341

Vehicle Speed/1-year Average DPM Emission Factor (2034) from EMFAC2021 for the Riverside Region

	Speed (mph)	Emission Factor (g/mi)
LDA	35	0.001323
LDT1	35	0.005328
LDT2	35	0.004220
MDV	35	0.009595
LHDT1	35	0.014814
LHDT2	35	0.001654
MHDT	35	0.003661
HHDT	35	0.007916

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 2816.4 meters or
1.750 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)		
LDA	0.0	0.00E+00		
LDT1	0.3	3.67E-06		
LDT2	0.0	0.00E+00		
MDV	0.0	0.00E+00		
LHDT1	4.3	5.02E-05		
LHDT2	0.3	3.18E-06		
MHDT	2.2	2.52E-05		
HHDT	4.7	5.47E-05		
			Truck	Car
Total	11.8	**1.37E-04**	**1.33E-04**	**3.67E-06**

Rio Vista

Estimation of DPM Emissions Onsite - 15 mph

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Project Trips	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks
Onsite Roadway	37315	3026	34289	91.9%	8.1%

Adjusted Fleet Mix

	Riverside County CalEEMod Fleet Mix	Daily Trips
LDA	54.3%	20267
LDT1	6.1%	2267
LDT2	18.5%	6894
MDV	13.0%	4861
Total	91.9%	34289
LHD1	2.4%	889
LHD2	0.6%	237
Total	3.0%	1126
MHDT	1.2%	437
HHDT	0.9%	341

Diesel Vehicle Distribution (from URBEMIS: 2023 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.5%	34
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	18.8%	167
LHDT2	40.0%	95
MHDT	77.8%	340
HHDT	100.0%	341

Vehicle Speed/1-year Average DPM Emission Factor (2034) from EMFAC2021 for the Riverside Region

	Speed (mph)	Emission Factor (g/mi)
LDA	15	0.002291
LDT1	15	0.009775
LDT2	15	0.007214
MDV	15	0.017980
LHDT1	15	0.026883
LHDT2	15	0.002881
MHDT	15	0.003536
HHDT	15	0.007625

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 80.5 meters or
0.050 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)		
LDA	0.0	0.00E+00		
LDT1	0.0	1.92E-07		
LDT2	0.0	0.00E+00		
MDV	0.0	0.00E+00		
LHDT1	0.2	2.60E-06		
LHDT2	0.0	1.58E-07		
MHDT	0.1	6.96E-07		
HHDT	0.1	1.50E-06		
			Per 0.05 miles	
Total	0.4	**5.15E-06**	**4.96E-06**	**1.92E-07**

Rio Vista Specific Plan

Estimation of DPM Emissions from Truck Idling from Industrial Uses

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Industrial Trips	2703	482	2221	82.2%	17.8%	88	18.3%	118	24.4%	276	57.3%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix	Riverside County CalEEMod Fleet Mix	Adjusted Fleet Mix by Category	Daily Trips	Adjusted Overall Industrial Fleet Mix
LDA	54.3%	59.1%	1313	48.57%
LDT1	6.1%	6.6%	147	5.43%
LDT2	18.5%	20.1%	447	16.52%
MDV	13.0%	14.2%	315	11.65%
Total	91.9%	100.0%	2221	
LHD1	2.4%	79.0%	**70**	2.58%
LHD2	0.6%	21.0%	**19**	0.69%
Total	3.0%	100.0%	88	
MHDT			**118**	4.35%
HHDT			**276**	10.21%
Total - All Vehicles			2703	100.00%

Diesel Truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for All Vehicles (g/sec)
Idle1 - Idle8	LHDT1	0.000799	15	8.7	6.97E-03	1.54E-05	8.07E-08	
	LHDT2	0.001274	15	2.3	2.96E-03	6.53E-06	3.43E-08	
	MHDT	0.001075	15	14.7	1.58E-02	3.48E-05	1.83E-07	
	HHDT	0.003742	15	34.5	1.29E-01	2.85E-04	1.49E-06	1.79207E-06

Rio Vista

Estimation of DPM Emissions Onsite - 15 mph

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Project Trips	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks
Onsite Roadway	37315	3026	34289	91.9%	8.1%

Adjusted Fleet Mix

	Riverside County CalEEMod Fleet Mix	Daily Trips
LDA	54.3%	20267
LDT1	6.1%	2267
LDT2	18.5%	6894
MDV	13.0%	4861
Total	91.9%	34289
LHD1	2.4%	889
LHD2	0.6%	237
Total	3.0%	1126
MHDT	1.2%	437
HHDT	0.9%	341

Diesel Vehicle Distribution (from URBEMIS: 2023 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.5%	34
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	18.8%	167
LHDT2	40.0%	95
MHDT	77.8%	340
HHDT	100.0%	341

Vehicle Speed/1-year Average DPM Emission Factor (2034) from EMFAC2021 for the Riverside Region

	Speed (mph)	Emission Factor (g/mi)
LDA	15	0.002291
LDT1	15	0.009775
LDT2	15	0.007214
MDV	15	0.017980
LHDT1	15	0.026883
LHDT2	15	0.002881
MHDT	15	0.003536
HHDT	15	0.007625

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 80.5 meters or
0.050 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)		
LDA	0.0	0.00E+00		
LDT1	0.0	1.92E-07		
LDT2	0.0	0.00E+00		
MDV	0.0	0.00E+00		
LHDT1	0.2	2.60E-06		
LHDT2	0.0	1.58E-07		
MHDT	0.1	6.96E-07		
HHDT	0.1	1.50E-06		
			Per 0.05 miles	
Total	0.4	**5.15E-06**	**4.96E-06**	**1.92E-07**

Rio Vista Specific Plan

Estimation of DPM Emissions from Truck Idling from Industrial Uses

Traffic Impact Analysis - EPD Solutions, Inc., 2022

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Industrial Trips	2703	482	2221	82.2%	17.8%	88	18.3%	118	24.4%	276	57.3%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix	Riverside County CalEEMod Fleet Mix	Adjusted Fleet Mix by Category	Daily Trips	Adjusted Overall Industrial Fleet Mix
LDA	54.3%	59.1%	1313	48.57%
LDT1	6.1%	6.6%	147	5.43%
LDT2	18.5%	20.1%	447	16.52%
MDV	13.0%	14.2%	315	11.65%
Total	91.9%	100.0%	2221	
LHD1	2.4%	79.0%	**70**	2.58%
LHD2	0.6%	21.0%	**19**	0.69%
Total	3.0%	100.0%	88	
MHDT			**118**	4.35%
HHDT			**276**	10.21%
Total - All Vehicles			2703	100.00%

Diesel Truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor (grams/trip)	Idling Time (min)	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Emissions for All Vehicles (g/sec)
Idle1 - Idle8	LHDT1	0.000799	15	8.7	6.97E-03	1.54E-05	8.07E-08	
	LHDT2	0.001274	15	2.3	2.96E-03	6.53E-06	3.43E-08	
	MHDT	0.001075	15	14.7	1.58E-02	3.48E-05	1.83E-07	
	HHDT	0.003742	15	34.5	1.29E-01	2.85E-04	1.49E-06	1.79207E-06

Table 1
DPM Vehicular Emission Factors[1]

Vehicle Type	MPH assumed for vehicle type	Average DPM Exhaust Emissions Factor for 2034 (g/mi)
Light Duty Auto (LDA)	55	0.001001
Light Duty Truck 1 (LDT1)	55	0.0042
Light Duty Truck 2 (LDT2)	55	0.003165
Medium Duty Truck (MDV)	55	0.007679
Light-Heavy Duty Truck 1 (LHDT1)	55	0.011588
Light-Heavy Duty Truck 2 (LHDT2)	55	0.001257
Medium-Heavy Duty Truck (MHDT)	55	0.009910
Heavy-Heavy Duty Truck (HHDT)*	55	0.021531

Vehicle Type	MPH assumed for vehicle type	Average DPM Exhaust Emissions Factor for 2034 (g/mi)
Light Duty Auto (LDA)	35	0.001323
Light Duty Truck 1 (LDT1)	35	0.005328
Light Duty Truck 2 (LDT2)	35	0.00422
Medium Duty Truck (MDV)	35	0.009595
Light-Heavy Duty Truck 1 (LHDT1)	35	0.014814
Light-Heavy Duty Truck 2 (LHDT2)	35	0.001654
Medium-Heavy Duty Truck (MHDT)	35	0.003661
Heavy-Heavy Duty Truck (HHDT)*	35	0.007916

Vehicle Type	MPH assumed for vehicle type	Average DPM Exhaust Emissions Factor for 2034 (g/mi)
Light Duty Auto (LDA)	15	0.002291
Light Duty Truck 1 (LDT1)	15	0.009775
Light Duty Truck 2 (LDT2)	15	0.007214
Medium Duty Truck (MDV)	15	0.01798
Light-Heavy Duty Truck 1 (LHDT1)	15	0.026883
Light-Heavy Duty Truck 2 (LHDT2)	15	0.002881
Medium-Heavy Duty Truck (MHDT)	15	0.003536
Heavy-Heavy Duty Truck (HHDT)*	15	0.007625

Notes:

(1) Source: EMFAC2017 for Riverside County.

Table 2
Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Traffic	Line Sources	Plume height: 12 feet
		Plume width: 12 feet
		Vehicle speed: See Table 1
		Length of the line source (101 Freeway segment southeast of project and Old Redwood Highway north of project)
		Vehicle types: see Table 1
		Emission factor: CARB EMFAC2021
Diesel Truck Idling	Volume Sources	Configuration: 8 sources
		Release height: 10.2 feet (3.1 meters)
		Vehicle type: HHDT diesel trucks
		Emission factors: CalEEMod Version 2020.4.0

Table 3

General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP-generated NED GEOTIFF 30 m
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM Zone 10 North
Building downwash	Included in calculations (as applicable)
Receptor height	0 meters above ground per SCAQMD AERMOD guidance
Meteorological data	Sonoma County Airport Meteorological Data

Table 4

Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Years) 2023

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
Maximally Exposed Receptor	0.00393	3.9E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0008

Note: Exposure factors used to calculate TAC intake for Short-term Exposure

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	91.25

Table 5

Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)
2024-2025

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
Maximally Exposed Receptor	0.00393	3.9E-06	1.00E+00	DPM	1.1E+00	**1.29**	5.0E+00	1.4E-03	0.0008

Note: Exposure factors used to calculate TAC intake for Short-term Exposure

Exposure Frequency (days/year)	350
Exposure Duration (years)	2.00
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	730

Table 6

Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario
2026-2039

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
Maximally Exposed Receptor	0.00393	3.9E-06	1.00E+00	DPM	1.1E+00	1.48	5.0E+00	1.4E-03	0.0008

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	365
Exposure Duration (years)	14
Daily Breathing Rate	572
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

Table 7

Carcinogenic Risks and Non-Carcinogenic Hazards
Adult Exposure Scenario (14 Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
Maximally Exposed Receptor	0.00393	3.9E-06	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0008

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	261
Age Sensitivity Factor	1
Fraction of Time At Home (FAH)	0.73
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Trips and VMT - Note 5

Demolition - Note 4

Grading - Note 4

Architectural Coating - Note 6

Vehicle Trips - Note 5, Note 7

Woodstoves - Note 8

Area Coating -

Energy Use - Note 8

Construction Off-road Equipment Mitigation - Note 9

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Energy Mitigation - Note 10

Fleet Mix - Note 7

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

2.0 Emissions Summary

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					
2024	3.7900e-003	3.0500e-003	4.5300e-003	1.0000e-005	0.0000	1.5000e-004	1.5000e-004	0.0000	1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
Maximum	**3.7900e-003**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2024	3.7900e-003	3.0500e-003	4.5300e-003	1.0000e-005	0.0000	1.5000e-004	1.5000e-004	0.0000	1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
Maximum	**3.7900e-003**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	**1-1-2024**	**3-31-2024**	0.0049	0.0049
		Highest	0.0049	0.0049

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	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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Energy	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.3053	1.3053	1.0000e-004	1.0000e-005	1.3121
Mobile	2.5200e-003	4.0000e-003	0.0257	6.0000e-005	6.4700e-003	5.0000e-005	6.5200e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	5.6364	5.6364	3.0000e-004	2.8000e-004	5.7282
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.4500	0.4906	4.2100e-003	1.0000e-004	0.6266
Total	**5.4700e-003**	**4.1200e-003**	**0.0258**	**6.0000e-005**	**6.4700e-003**	**6.0000e-005**	**6.5300e-003**	**1.7300e-003**	**6.0000e-005**	**1.7800e-003**	**0.1766**	**7.3917**	**7.5683**	**0.0127**	**3.9000e-004**	**8.0038**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	-6.3459	-6.3459	-0.0005	-0.0001	-6.3785
Mobile	2.5200e-003	4.0000e-003	0.0257	6.0000e-005	6.4700e-003	5.0000e-005	6.5200e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	5.6364	5.6364	3.0000e-004	2.8000e-004	5.7282
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.4500	0.4906	4.2100e-003	1.0000e-004	0.6266
Total	**5.4700e-003**	**4.1200e-003**	**0.0258**	**6.0000e-005**	**6.4700e-003**	**6.0000e-005**	**6.5300e-003**	**1.7300e-003**	**6.0000e-005**	**1.7800e-003**	**0.1766**	**-0.2594**	**-0.0828**	**0.0120**	**3.2000e-004**	**0.3132**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**	**103.51**	**101.09**	**5.06**	**17.95**	**96.09**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2024	1/5/2024	5	5	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Architectural Coating - 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					
Archit. Coating	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392

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Total	**3.7900e-003**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
Total	**3.7900e-003**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	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**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5200e-003	4.0000e-003	0.0257	6.0000e-005	6.4700e-003	5.0000e-005	6.5200e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	5.6364	5.6364	3.0000e-004	2.8000e-004	5.7282
Unmitigated	2.5200e-003	4.0000e-003	0.0257	6.0000e-005	6.4700e-003	5.0000e-005	6.5200e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	5.6364	5.6364	3.0000e-004	2.8000e-004	5.7282

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	17,101	17,101
Total	7.01	1.59	0.50	17,101	17,101

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

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General Office Building	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	-6.4777	-6.4777	-0.0006	-0.0001	-6.5111
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1735	1.1735	1.0000e-004	1.0000e-005	1.1795
NaturalGas Mitigated	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1318	0.1318	0.0000	0.0000	0.1326
NaturalGas Unmitigated	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1318	0.1318	0.0000	0.0000	0.1326

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					
General Office Building	2469.6	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1318	0.1318	0.0000	0.0000	0.1326
Total		**1.0000e-005**	**1.2000e-004**	**1.0000e-004**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.1318**	**0.1318**	**0.0000**	**0.0000**	**0.1326**

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					
General Office Building	2469.6	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1318	0.1318	0.0000	0.0000	0.1326
Total		**1.0000e-005**	**1.2000e-004**	**1.0000e-004**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.1318**	**0.1318**	**0.0000**	**0.0000**	**0.1326**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	6616.8		1.1735	1.0000e-004	1.0000e-005	1.1795
Total			**1.1735**	**1.0000e-004**	**1.0000e-005**	**1.1795**

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	-36525.6		-6.4777	-0.0006	-0.0001	-6.5111
Total			**-6.4777**	**-0.0006**	**-0.0001**	**-6.5111**

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	2.9400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**2.9300e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**2.9300e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		0.4906	4.2100e-003	1.0000e-004	0.6266
Unmitigated		0.4906	4.2100e-003	1.0000e-004	0.6266

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.4906	4.2100e-003	1.0000e-004	0.6266
Total			**0.4906**	**4.2100e-003**	**1.0000e-004**	**0.6266**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.4906	4.2100e-003	1.0000e-004	0.6266
Total			**0.4906**	**4.2100e-003**	**1.0000e-004**	**0.6266**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		0.1360	8.0400e-003	0.0000	0.3369
Unmitigated		0.1360	8.0400e-003	0.0000	0.3369

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

Jurupa Valley Rio Vista SP EIR Construction Trailer - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Appendix D:
Biological Resources Supporting Information

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D.1 - Biological Resources Assessment

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix D is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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L&L ENVIRONMENTAL, INC.
REGULATORY SERVICES
BIOLOGICAL & CULTURAL INVESTIGATIONS & MONITORING

REVISED UPDATED BIOLOGICAL RESOURCES ASSESSMENT, JURISDICTIONAL DELINEATION, MSHCP NARROW ENDEMIC PLANT, BURROWING OWL BREEDING SEASON, AND TWO-YEAR DELHI SANDS FLOWER-LOVING FLY FOCUSED SURVEYS RIO VISTA, SPECIFIC PLAN 16001, JURUPA VALLEY, RIVERSIDE COUNTY, CALIFORNIA

±902.43-Acre Property, ±902.43 Acres Surveyed

APNs 175-080-010, 175-090-001 through -005, 175-100-003 (portion), -005, & -006, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008, SP 16001,
Rubidoux Area, Sections 3, 4, 9, & 10, Township 2 South, Range 5 West,
USGS Fontana 7.5' Topographic Quadrangle Map

Prepared For:

Brian Hardy
RMD Inland Investors, LLC & Canadian Pacific Land, LLC / Richland Real Estate Fund, LLC
3161 Michelson Drive, Suite 425
Irvine, CA 92612
949-383-4124

Prepared By:

Leslie Irish, Principal	lirish@llenviroinc.com
Guy Bruyea, Field Biologist	gbruyea@llenviroinc.com
Carla Wakeman, Senior Biologist	cwakeman@llenviroinc.com
Julia Fox, Technical Editor	jkfox@llenviroinc.com
Katelynn Michaelson, Technical Editor	Kmichaelson@llenviroinc.com
Jeff Sonnentag, GIS	jsonnentag@llenviroinc.com
Joshua Ball, GIS and Graphics	jball@llenviroinc.com.com

Report Summary:

Burrowing owl and narrow endemic plants were not observed during focused surveys. Delhi Sands flower-loving fly was found on the site in 2005, but surveys in 2015 and 2016 were negative. The Project will impact 24.3 percent of Delhi soils and 22.5 percent of the 2005 mapped occupied Delhi Sands flower-loving fly habitat. An ancient Palmer's oak (of individual significance) is present in the survey area but will be avoided. The Project will impact 6.86 acres of CDFW Streambeds and wetlands and MSHCP Riparian/Riverine habitat of which 3.15 is waters of the state under Porter-Cologne. Listed and special status plants and wildlife have been observed. Crotch bumble bee has been observed on the site and is a candidate for state listing as endangered. It is not covered under the MSHCP and incidental take permitting is required for impacts. Habitat for nesting birds is present. Impacts are analyzed and mitigation measures are proposed to avoid, minimize, and compensate for impacts to biological resources. With implementation of the recommended measures, impacts associated with the proposed Project would be less than significant.

Surveys Conducted By: Bruyea, Dicus, Luft, Irish, Lopez, Ball
Surveys Conducted In: Apr-July 2014, Feb - Sep 2015, Apr - Oct 2016, and Apr - Sep 2018
Report Date: Dec 2016, updated Jan 2019, Aug 2020; Revised Mar 2021, Jun 2021, Aug 2021, Jan 2022, Mar 2023 and Sep 2023

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MANAGEMENT SUMMARY

L&L Environmental, Inc. conducted a biological assessment on Richland Communities' ±902.43-acre Rio Vista Project (±476.52-acre development footprint) in the City of Jurupa Valley, California. The purpose of this study was to examine the subject property to determine presence/absence of biological resources on the property, potential for special status species to occur, and presence of species or habitats that are regulated under the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). L&L evaluated the site for Narrow Endemic plant species, burrowing owl, Delhi Sands flower-loving fly, and MSHCP Riparian/Riverine and vernal pool habitat.

The property is in the City of Jurupa Valley within the County of Riverside, east of Armstrong Road and north of the 60 freeway. It is not located within the MSHCP Criteria Area. The site contains a mixture of steep hillsides, rolling hills, rocky outcrops, and low-relief canyons combined with relatively flat areas. Several unpaved roads are present on the site and some areas have been affected by historic and ongoing off-road vehicle use. Eight vegetation communities are present: Brittle Bush Scrub, California Buckwheat Scrub, Chamise Chaparral, Bush Penstemon Scrub, Willow Scrub, Non-native Grasslands, Ornamental Vegetation, and Developed areas. Bush Penstemon Scrub is a sensitive vegetation community.

One special status plant species was observed during the 2014, 2015, 2016, 2017, and 2018 surveys, Plummer's mariposa lily (*Calochortus plummerae).* One (1) listed and nine (9) special status wildlife species were observed: coastal California gnatcatcher (*Polioptila californica californica*), Cooper's hawk (*Accipiter cooperii*), southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), Lawrence's goldfinch (*Spinus lawrencei*), northern harrier (*Circus hudsonius*), great egret (*Ardea alba*), Costa's hummingbird (*Calypte costae*), northern red-diamond rattlesnake (*Crotalus ruber*), orange-throated whiptail (*Aspidoscelis hyperythra*), and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*). The Project site also supports habitat for nesting birds.

Four (4) other listed and special status wildlife species were reported as occurring in the 2005 and 2006 biological surveys conducted by AMEC: coast horned lizard (*Phrynosoma blainvillii*), coastal whiptail (*Aspidoscelis tigris stejnegeri*), Crotch bumble bee (*Bombus crotchii*), and Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*). In addition, two (2) special status plants and 18 special status wildlife species were determined to have a moderate or high potential of occurring within the survey area.

Crotch bumble bee is a candidate for state listing as endangered (as of March 2023). Impacts to this species require incidental take permitting and associated mitigation.

A single Palmer's oak (*Quercus palmeri*) was identified in the survey area. Scientific research suggests the age of this individual ranges between 13,000 and 18,000 years old. Although Palmer's oak is not a special status species, it is very uncommon within cismontane Western Riverside County. Based on the current Project design, the Palmer's oak is located in designated open space at least 150 feet outside of the Project limits.

Habitat assessment and focused botanical surveys for Narrow Endemic plants (San Diego ambrosia, Brand's phacelia, and San Miguel savory) determined there was either no suitable habitat or the species were absent due to poor habitat and multiple years of negative survey results. Focused surveys for burrowing owl in 2005, 2014, 2016, and 2018 were negative, but suitable habitat is present.

Delhi Sands flower-loving fly (DSF) was found on the site by AMEC in 2005. The area of occupied habitat was mapped as 3.73 acres. A two-year focused survey for DSF was conducted in 2015 and 2016 and results were negative. Due to the extensive and increasing impacts of off-road vehicles and unauthorized dumping within the Delhi Sands habitat, as well as reduced presence of reliable local nectar sources, DSF may have been extirpated from this area. The site is not within MSHCP Criteria Cells or Conservation Areas and, with negative survey results, no mitigation is required. The Project limits impacts to no more than 24.3 percent of the acreage of Delhi Sands habitat present and 22.5 percent of the 2005 mapped occupied habitat.

A jurisdictional delineation in 2018 found jurisdictional areas in the survey area calculated at 2.31 acres of CDFW streambed and 0.85 acre of CDFW wetlands, for a total of 3.16 acres of state jurisdiction on the Project site.

An updated jurisdictional delineation in 2023 found 5.98 acres of CDFW streambed/MSHCP Riverine habitat and 0.88 acre of CDFW wetlands/MSHCP Riparian habitat for a total of 6.86 acres of CDFW jurisdiction and MSHCP Riparian/Riverine habitat on the site. Of this 3.15 acres is also considered to be waters of the state.

The features on the property are ephemeral and therefore are not federal waters and the state wetlands do not meet the criteria for federal wetlands. The U.S. Army Corps of Engineers issued an Approved Jurisdictional Determination on February 11, 2021 stating that Waters of the U.S. do not occur on the Project site.

Project implementation will impact 5.98 acres of state streambed/MSHCP Riverine habitat and 0.88 acre of CDFW wetlands/MSHCP Riparian habitat for a total of 6.86 acres of CDFW jurisdiction and MSHCP Riparian/Riverine habitat on the site. Of this, 3.15 acres of impact will occur to waters of the state. No impacts will occur to federal waters or wetlands since none are present on the property.

The Highland Park development project is immediately adjacent to the southwest side of the Rio Vista Project. Three of the five offsite impact areas for Rio Vista (as shown on Specific Plan 16001 (T&B Planning, November 19, 2020) and plans provided by Hunsaker and Associates dated October 1, 2020) are on the Highland Park property. Impacts to areas within the Highland Park Project which were considered Rio Vista off-site improvements have been removed from this report as the Highland Park project is currently under construction. Similarly, because the Highland Park project has moved to construction, those areas within Rio Vista that were considered off-site improvements and impacts for the Highland Park Project are not addressed in this report.

Two offsite grading areas on the northeast side will connect the Project to the existing 20th Street and the existing Alicante Avenue. These areas have not been surveyed, but L&L conducted a desktop review of these areas and found them to be entirely disturbed and developed.

Impacts of the Project are analyzed and mitigation measures are proposed to avoid, minimize, and compensate for impacts to biological resources. With implementation of the recommended mitigation measures, impacts associated with the proposed Project would be less than significant.

1.0) INTRODUCTION

This report has been prepared by L&L Environmental, Inc. (L&L) for Richland Communities. It describes the proposed Rio Vista Project (Project) and its potential impacts on biological resources. It describes the results of biological surveys conducted between 2014 and 2018, including five botanical surveys, three breeding season focused surveys for burrowing owl, two jurisdictional delineations, and two consecutive years of Delhi Sands flower loving fly surveys. Surveys were conducted on the proposed development located within the City of Jurupa Valley in Riverside County, California. The Project site consists of APNs 175-080-010, 175-090-001 through -005, 175-100-003 (portion), -005, and -006, 175-160-001, -005, and -007, 177-030-012 and -014, 177-040-002, and -008, totaling ±902.12 acres plus ±0.31 acre of offsite areas for a total of ±902.43 acres.

APNs 175-080-021 and 175-150-002 and a portion of APN 175-100-003 are shown as part of Specific Plan 16001 (T&B Planning, November 19, 2020), but are considered not a part of the Project and are not further addressed in this report.

L&L's assessment consisted of (1) a review of previous data and reports documenting biological resources on the site, (2) a records search conducted to determine special status species documented in the area, and (3) field reconnaissance to identify plants and animals on the site and presence/absence of habitat for species of concern, in particular burrowing owl, Delhi Sands flower-loving fly, and Narrow Endemic plants.

1.1) Project Description

The Rio Vista Project consists of the rescission of a Specific Plan (SP), which was initially approved by Riverside County in 1992, adoption of a new Specific Plan, Zoning Ordinance Amendment and General Plan Amendment for a master planned community on an approximately 917.3-acre site (including APNs 175-080-021 and 175-150-002 and all of APN 175-100-003) in the City of Jurupa Valley. Tentative Tract Maps will be processed subsequently.

The Specific Plan was approved in 1992 for 917.3 acres but the project area limits for biological resources extend across 902.43 acres as calculated in GIS. Additional biological resource work will be required should any impacts occur outside the project area for biological resources.

Based on the Land Use Plan for Specific Plan 16001 (T&B Planning, August 5, 2021; see Appendix H), the proposed Project consists of up to 1,697 residential dwelling units on 204.4

acres[1], 140.3 acres of Light Industrial and Business Park, 14.8 acres of Public Facilities (school, water tanks), 19.6 acres for Circulation, 18.4 acres of Open Space – Recreation (parks and trails), 9.0 acres for Open Space – Water (basin), and 510.8 acres of Open Space – Conservation (natural, slopes). Acreage is approximate and will be defined through future implementing tract map(s).

Based on the Land Use Plan (T&B Planning, August 5, 2021), the Project would include approximately 510.8 acres of conserved open space, consisting of a combination of natural areas, common areas, landscaped slopes, conservation areas, and Southern California Edison Easement.

1.2) Project Location

The site is in the City of Jurupa Valley within the County of Riverside (Figure 1). It is located east of Armstrong Road and north of the 60 freeway, within parts of Sections 3, 4, 9, and 10 of Township 2 South, Range 5 West, USGS Fontana quadrangle (Figure 2). The property can be accessed from the 60 freeway by taking the Rubidoux Boulevard exit north and then taking one of the roads (28th Street, 20th Street, etc.) leading west to the Project location.

The site is generally bounded as follows: to the west by high density housing, with a golf club and undeveloped land beyond, including conserved open space; to the east by industrial developments, undeveloped land, and high density housing, with the Santa Ana River and the City of Riverside beyond; to the north by undeveloped land, with high density housing beyond; and to the south by undeveloped land and high density housing, with the 60 freeway, high density housing, and commercial developments beyond (Figure 3).

1.3) Offsite Impact Areas

Highland Park

The Highland Park project is immediately adjacent to the southwest side of the Rio Vista Project. Three of the five offsite impact areas for Rio Vista (as shown on the Land Use Plan for Specific Plan 16001, T&B Planning, August 5, 2021 [see Appendix H] and plans provided to L&L by Hunsaker and Associates on August 25, 2021) are on the Highland Park property. For the purposes of this report, all impacts within the Highland Park project and all off-site improvements

[1] This report does not include APN 175-080-021 (PA 7) with 11.1 acres and 45 dwelling units, APN 175-150-002 (PA 11) with 3.8 acres and 3 dwelling units, and a portion of APN 175-100-003 (PA 10) with 2.6 acres and 2 dwelling units.

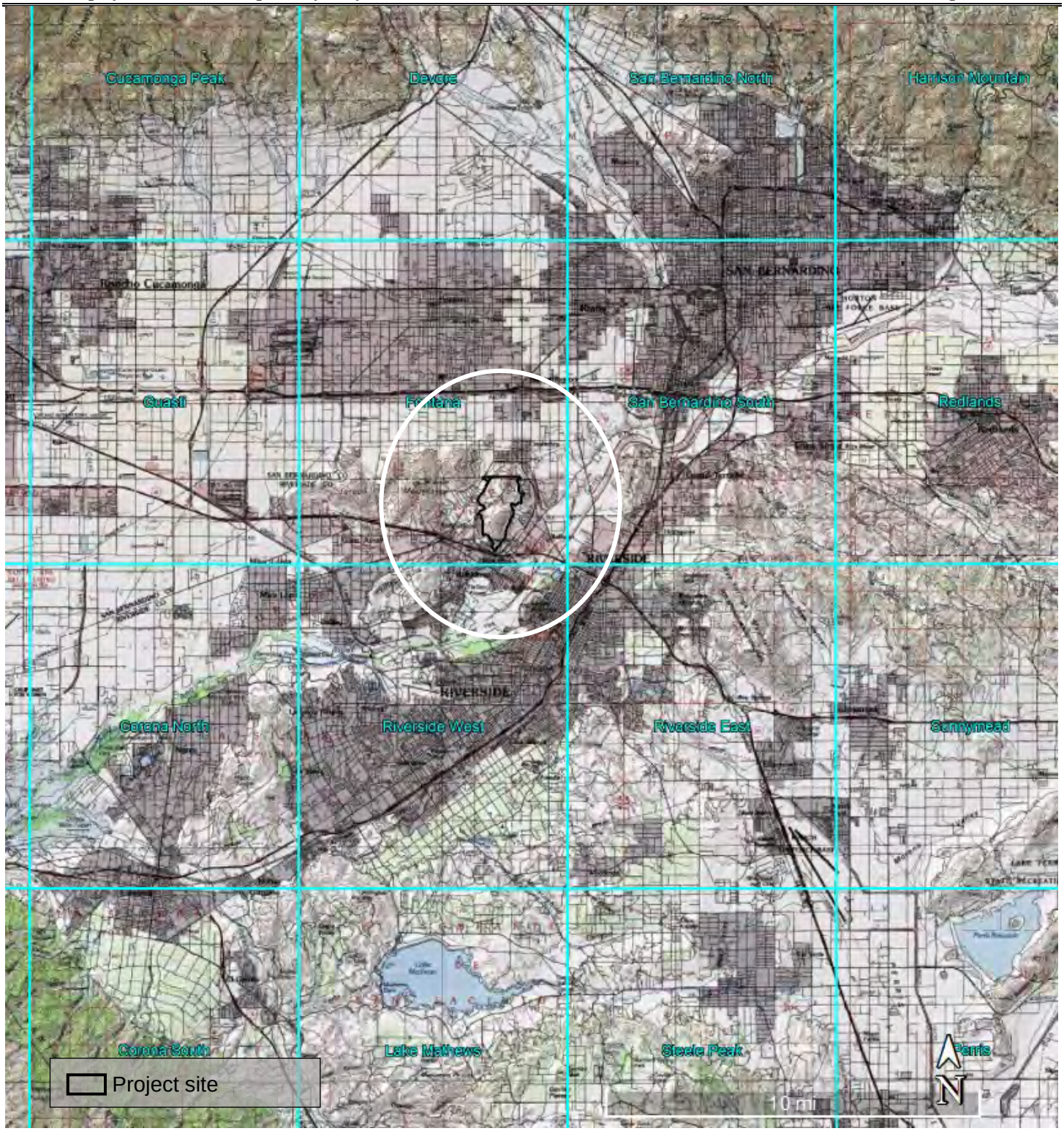
and resulting impacts for the Highland Park project including those occurring as Highland Park offsite improvements within the Rio Vista Project limits are excluded from this analysis.

On the figures in this report, the offsite impact areas in Highland Park are labeled as "offsite (not a part)," indicating that these offsite areas are not included in this analysis.

20th Street and Alicante Avenue

Offsite grading areas on the northeast side are needed to connect the Project to the existing 20th Street and the existing Alicante Avenue. These areas have not been surveyed but L&L conducted a desktop review of these areas.

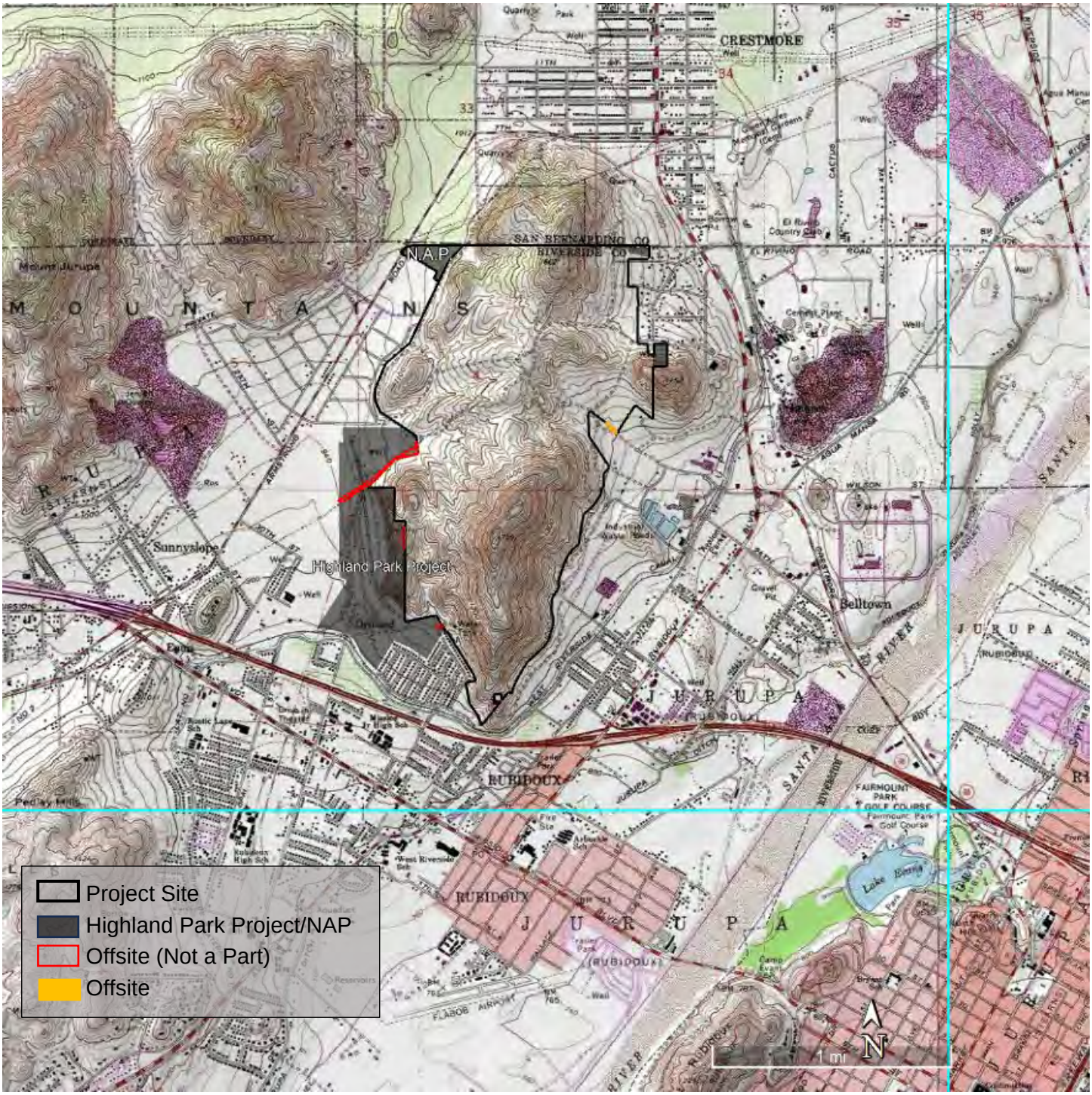
On the figures in this report, the offsite impact areas at 20th Street and Alicante Avenue are labeled as "offsite," indicating that these offsite areas are included in this analysis.



(USGS Quad, Section 3 of Township 2 South, Range 5 West)

Rio Vista Project
Riverside County, California

Project Vicinity
Figure 1



(USGS Quad, Section 3 of Township 2 South, Range 5 West)

Rio Vista Project
Riverside County, California

Project Location
Figure 2



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Project Aerial
Figure 3

2.0) METHODS

2.1) Literature Review

Certain plants and animals have been listed as threatened or endangered under state or federal Endangered Species Acts. Other species have not been formally listed but declining populations or habitat availability are reasons for concern regarding their long-term viability. These species are included in lists compiled by resource management agencies or private conservation organizations. In this report, the term "special status species" refers to all species included in one or more compendia or formal list of rare, threatened, or endangered species.

Preliminary investigations included a review of pertinent literature, including both regional and local data, to identify occurrences and habitat requirements of special status species and communities occurring in the survey area. Literature reviewed included compendia provided by resource agencies, the Western Riverside County MSHCP (Dudek 2003), the California Native Plant Society Inventory of Rare and Endangered Vascular Plants of California (CNPS 2021), and California Natural Diversity Database (CNDDB; CDFW 2021a). The CNDDB and CNPS search included the Fontana topographic quadrangle, which includes the Project site, and the adjacent quadrangles (Cucamonga Peak, Guasti, Corona North, Devore, Riverside West, San Bernardino North, San Bernardino South, and Riverside East). The CNDDB and CNPS searches were updated in January 2021 (CDFW 2021a, CNPS 2021). The Information for Planning and Consultation database (IPaC; USFWS 2021) was also reviewed in January 2021. Special status species information from CDFW (2021b, 2020a), standard reference works, field guides, existing literature, and unpublished reports were also included as part of the background research.

Vegetation community classifications are based on Sawyer et al. (2009). State ranks (S ranks) for vegetation communities are from CDFW (2020b). Holland Element Codes are from Holland (1986) and/or Oberbauer (1996). Scientific names of plants follow Baldwin (2012) with updates from the online Jepson eFlora (Jepson 2021). Scientific names of animals follow Stebbins (1985), Jameson and Peeters (1988), Sibley (2000), and Arnett (2000), with updates from academic sources.

L&L reviewed and utilized reports documenting previous surveys of the property conducted by others including:

- Preliminary Determination of Jurisdictional Limits U. S. Army Corps of Engineers Section 404 Waters of the United States Including Wetlands and State Waters Subject to California

Department of Fish and Game Section 1602 Streambed Alteration Agreement, Rio Vista Specific Plan. AMEC Earth & Environmental, Inc. 2005.

- Rio Vista Specific Plan, EA & Case # SP 00243A1 & CZ 07159, Habitat Assessment and Focused Survey for Delhi Sands Flower-loving Fly. AMEC Earth & Environmental, Inc. 2005.

- Rio Vista Specific Plan, EA & Case # SP 00243A1 & CZ 07159, Biological Resources Assessment, Habitat Assessment, and Focused Burrowing Owl Survey. AMEC Earth & Environmental, Inc. 2006.

- Determination of Biologically Equivalent or Superior Preservation, Rio Vista Specific Plan SP00243A1, Riverside County, California. AMEC Earth & Environmental, Inc. 2008.

L&L reviewed and either included or updated data as appropriate from previous L&L surveys of the property, including:

- One Year Supplement Focused Study for Delhi Sands Flower-loving Fly, Rio Vista, Specific Plan 243A1, Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2015.

- Jurisdictional Delineation with Least Environmentally Damaging Practical Alternative for Rio Vista, Specific Plan 243A1, City of Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2015.

- Biological Assessment, Jurisdictional Delineation, MSHCP Narrow Endemic Plant, Burrowing Owl Breeding Season and Delhi Sands Flower-loving Fly Focused Surveys for Rio Vista, Specific Plan 243A1, Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2015.

- Second Year of a Focused Study for Delhi Sands Flower-loving Fly, Rio Vista, Specific Plan 243A1, Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2016.

- Updated Biological Assessment, Jurisdictional Delineation, MSHCP Narrow Endemic Plant, Burrowing Owl Breeding Season and Two Year Delhi Sands Flower-loving Fly Focused Surveys for Rio Vista, Specific Plan 243A1, Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2016.

- Botanical and Narrow Endemic Plant Survey for Rio Vista, Specific Plan 243A1, Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2017.

- Updated Jurisdictional Delineation with Least Environmentally Damaging Practical Alternative for Rio Vista, Specific Plan 243A1, City of Jurupa Valley, Riverside County, California. L&L Environmental, Inc. 2018.

L&L reviewed reports documenting LSA's previous surveys of the Highland Park project site, which includes offsite impact areas for the Rio Vista Project constructed by the Highland Park project:

- Biological Resources Assessment, Richland Rubidoux Residential Project. LSA 2004.

- Focused Survey for the California Gnatcatcher, Rubidoux Residential Development Project, County Case Number: TR31894. LSA 2004.

- Delineation of Wetlands and Jurisdictional Waters, Richland Rubidoux Residential Project. LSA 2004.

- Focused Survey for Burrowing Owl, Richland Rubidoux Residential Project (HANS 859, TTM 31894). LSA 2005.

- Habitat Assessment for MSHCP Survey Plants, Richland Rubidoux Residential Project (HANS 859, TTM 31894). LSA 2005.

- Focused Survey for Narrow Endemic Plant Species (Brand's Phacelia), Richland Rubidoux Residential Project (HANS 859, TTM 31894). LSA 2005.

- Compliance with MSHCP Section 6.1.2. Richland Rubidoux Residential Project, HANS 859, Case Number TR31894. LSA 2006.

- Third Year Focused Survey for Delhi Sands Giant Flower-loving Fly, Richland Rubidoux Residential Project (TR 31894). LSA 2006.

- Coastal California Gnatcatcher Survey Report, Rubidoux Residential Project (TTM 31894). LSA 2006.

- Review and Update to the Delineation of Wetlands and Jurisdictional Waters Report for the Richland Rubidoux Residential Project. LSA 2012.

Weather data for the Project vicinity was obtained from weather stations KCARIALT4 in Rialto and KRAL at the Riverside Municipal Airport in Riverside. Personal weather station KCARIALT4 is located approximately 3.5 miles northeast of the site at an elevation of 1125 feet. KRAL is located approximately 4.3 miles southwest of the site at an elevation of 817 feet (Wunderground.com 2018). Weather data is provided in Appendix C.

In this report, the Project site is defined as the entire property as shown in Figure 3. The Project footprint (or Project impact area) includes only the areas planned for development impacts as shown in Figure 17. The survey area (or study area) refers to the Project site (or the area of suitable habitat within the Project site) plus any buffer required by protocol (not including the offsite impact areas). The Project vicinity refers to the area within approximately five (5) miles of the Project site. The offsite impact areas refer to planned offsite impacts on the northeast side (20th Street and Alicante Avenue) and the southwest side (Highland Park site). Impacts to the Highland Park site will be covered under a separate project and are not addressed in this report.

2.2) General Biological Survey Methods

L&L biologists Guy Bruyea, John Dicus, and Melanie Dicus visited the survey area between April 2014 and September 2018 (see Table 1) to describe vegetation and habitat and evaluate probabilities that special status animals and plants might occur within the survey boundaries. The survey area included the Project site. Survey dates and weather conditions are listed in Table 1.

Table 1. Survey dates and weather conditions

Date	Time	Weather	Wind (mph)	Biologist	Purpose
04/25/2014	0900-1500	Partly Cloudy, 61-73° F	0-3	Bruyea	General Bio/Botanical
05/07/2014	0730-1330	Cloudy, 54-72° F	1-6	Bruyea	General Bio/Botanical
05/15/2014	0700-1300	Sunny, 67-96° F	0-2	Bruyea	General Bio/Botanical
05/24/2014	0600-1200	Partly Cloudy, 53-75° F	1-4	Bruyea	BUOW/Gen Bio/Bot
06/07/2014	0600-1200	Marine-Sunny, 60-71° F	0-1	Bruyea	BUOW/Gen Bio/Bot
06/14/2014	1330-1930	Sunny, 87-77° F	4-1	Bruyea	BUOW/Gen Bio/Bot
06/15/2014	0630-1230	Sunny, 57-80° F	0-3	Bruyea	BUOW/Gen Bio/Bot
06/19/2014	1400-2000	Sunny, 87-78° F	3-0	Bruyea	BUOW/Gen Bio/Bot
06/30/2014	0600-1200	Cloudy, 59-75° F	1-4	Bruyea	BUOW/Gen Bio/Bot
07/19/2014	0600-0930	Sunny, 62-67° F	0-1	Bruyea	General Bio/Botanical
02/17/2015	0630-1430	Marine-Sunny, 58-74° F	0-4	M. Dicus	General Bio/Botanical
02/25/2015	0800-1500	Sunny, 62-73° F	0-4	Bruyea	General Bio/Botanical
03/23/2015	0800-1500	Partly Cloudy, 65-75° F	0-3	Bruyea	General Bio/Botanical
06/01/2015	0900-1600	Sunny, 72-80° F	0-1	Bruyea	General Bio/Botanical
06/29/2015	0800-1500	Partly Cloudy, 73-85° F	0-3	Bruyea	General Bio/Botanical
04/15/2016	0800-1500	Sunny (Windy), 65-80°F	3-15	Bruyea	General Bio/Botanical
04/19/2016	0630-1700	Partly Cloudy, 68-92°F	1-5	Bruyea	BUOW/Gen Bio/Bot
04/26/2016	0630-1700	Hazy-Sunny, 61-73°F	0-3	Bruyea	BUOW/Gen Bio/Bot
05/06/2016	0800-1330	Cloudy, 60-70°F	0-3	Bruyea	General Bio/Botanical
05/15/2016	0630-1700	Marine Layer, 61-70°F	0-2	Bruyea	BUOW/Gen Bio/Bot
06/02/2016	0630-1700	Sunny, 65-91°F	0-4	Bruyea	BUOW/Gen Bio/Bot
06/30/2016	0630-1700	Sunny, 67-88°F	0-2	Bruyea	BUOW/Gen Bio/Bot
07/17/2016	1400-1700	Sunny, 100-92°F	3-2	Bruyea	General Bio/Botanical
10/18/2016	0900-1500	Partly Cloudy, 69-82°F	1-3	Bruyea	General Bio/Botanical
10/23/2016	0900-1200	Cloudy/Rain, 68-78°F	2-5	Bruyea	General Bio/Botanical
10/25/2016	1000-1300	Sunny, 69-75°F	2-4	Bruyea	General Bio/Botanical
10/26/2016	0900-1500	Sunny, 70-82°F	1-3	Bruyea	General Bio/Botanical
03/25/2017	0800-1730	Cloudy, 52-69° F	0-6	J. & M. Dicus	General Bio/Botanical
03/26/2017	0800-1700	Partly Cloudy, 55-73° F	0-6	J. & M. Dicus	General Bio/Botanical
04/14/2017	0830-1300	Sunny, 54-75° F	1-5	J. & M. Dicus	General Bio/Botanical

Table 1. Survey dates and weather conditions continued

05/29/2017	1200-1630	Partly Cloudy, 84-86° F	2-7	J. & M. Dicus	General Bio/Botanical
06/06/2017	0815-1730	Cloudy, 62-77° F	0-6	J. & M. Dicus	General Bio/Botanical
06/07/2017	0730-1645	Cloudy, 63-78° F	1-6	J. & M. Dicus	General Bio/Botanical
08/24/2017	0730-1400	Sunny, 64-68° F	1-10	J. & M. Dicus	General Bio/Botanical
08/27/2017	0710-1700	Sunny. 67-97° F	0-7	J. & M. Dicus	General Bio/Botanical
08/28/2017	0700-1330	Partly Cloudy, 71-106° F	0-7	J. & M. Dicus	General Bio/Botanical

04/05/2018	1100-1500	Partly Cloudy, 64-75°F	0-2	Bruyea	General Bio/Botanical
04/07/2018	0900-1500	Partly Cloudy, 60-73°F	0-5	Irish	General Bio/Botanical
04/20/2018	0730-1200	Sunny / Clear, 65-78°F	1-2	Bruyea	General Bio/Botanical
04/27/2018	0930-1500	Sunny / Clear, 67-76°F	0-3	Bruyea	General Bio/Botanical
05/01/2018	0900-1430	Sunny, 68-80°F	0-2	Irish	General Bio/Botanical
05/03/2018	1000-1530	Sunny / Hazy, 70-82°F	0-1	Bruyea	General Bio/Botanical
05/19/2018	0930-1330	Cloudy / Clear, 75-81°F	0-3	Bruyea	General Bio/Botanical
05/25/2018	1400-1800	Partly Cloudy, 75-79°F	2-5	Bruyea	General Bio/Botanical
06/04/2018	0900-1430	Sunny, 70-90°F	1-2	Irish	General Bio/Botanical
06/09/2018	1300-1500	Sunny / Clear, 88-96°F	1-4	Bruyea	General Bio/Botanical
06/30/2018	0930-1230	Sunny / Clear, 76-83°F	1-5	Bruyea	General Bio/Botanical
07/02/2018	0830-1400	Partly Cloudy, 76-90°F	1-2	Irish	General Bio/Botanical
07/09/2018	0630-1000	Partly Cloudy, 75-87°F	0-2	Bruyea	General Bio/Botanical
08/04/2018	0800-1200	Sunny / Clear, 79-96°F	0-3	Bruyea	General Bio/Botanical
09/04/2018	1230-1530	Sunny / Clear, 84-90°F	1-3	Bruyea	General Bio/Botanical
10/21/2018	0830-1400	Sunny / Clear, 72-84°F	0-2	Bruyea	General Bio/Botanical

A total of about 390 person-hours were spent on the site for the general biological and botanical surveys. All habitat types on the site were visited on foot. The site was surveyed by conducting a series of transects across the subject property where possible, stopping periodically for observations and notations. Fieldwork was conducted using recent aerial photography, topographic maps, and checklists based on biological information developed via the records search. Biological data were mapped onto the aerial photograph as polygon, line, and point features. All field surveys were conducted during daylight hours. Digital photographs were taken to record the conditions of the site during the surveys.

Aerial photography, digital vegetation maps, and habitat maps from previous reports were reviewed to determine potential community types within the survey area. Preliminary ground-truthing surveys concurred with digital vegetation maps and additional surveys were performed to define the community types and boundaries.

Mapping of vegetation communities was performed with the aid of Geographic Information System (GIS) programs. A preliminary map was drawn onscreen using polygons on color aerial photographs (Google Earth). The polygons were attributed with different vegetation communities after checking all available vegetation data gathered during surveys. Field data were also consulted to discern the boundaries of vegetation communities that were not easily detected with color aerial photography. This preliminary map was then checked onsite for accuracy and subsequently modified into the final vegetation community map.

Vegetation community mapping was updated in 2017 after subtle differences were noted in the field following a season with a normal amount of rainfall. Vegetation communities correspond to the California Natural Community List (CDFW 2020b).

The surveys coincided with the period during which many wildlife species, including migratory birds, would have been most detectable.

Potential for occurrence of plant and wildlife species were evaluated and classified as: absent, low, moderate, high, or occurs. These classifications are based on the presence and quality of habitat, geographic and elevational range of species, proximity to a known occurrence of a species obtained from CNDDB data, and field observations. Classifications for individual species may be modified based on biologists' experience and expert opinion.

Based on habitat assessment results and MSHCP requirements, focused surveys for burrowing owl, Narrow Endemic plants, and Delhi Sands flower loving fly were determined to be appropriate for the site and included adjacent lands as required by protocol.

2.3) Botanical Survey Methods

Information on special status plant species within the Project vicinity was gathered from the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CNPS 2021) and the CNDDB (CDFW 2021a). Maps depicting documented special status plant species locations within the Project vicinity were produced to aid in determining the target species for survey.

L&L conducted a habitat assessment for the species in Table 12 (Appendix A). The habitat assessment followed the recommendations of the California Native Plant Society (CNPS 2001). The survey area's suitability to support special status and MSHCP Narrow Endemic plant species was determined using indicators, including the presence of suitable habitat, moisture, and soil conditions. The survey area included the Project site.

A complete floristic study of the survey area, as required in a CEQA analysis, was conducted between April 2014 and September 2018 (Table 1). Focused plant surveys were conducted throughout the year (early, mid, and late season) to provide full coverage and to include the typical blooming period for these species. The plant surveys followed protocols recommended in USFWS (1996b), CDFW (CDFG 2009, CDFW 2018), and CNPS guidelines (CNPS 2001) for rare plant surveys and the standards set forth in the Western Riverside County MSHCP. All plants encountered were identified to a level necessary to ensure detection of special status species.

Plants of uncertain identity were collected and subsequently identified from keys, descriptions, and illustrations in Abrams (1923, 1944, & 1951), Abrams and Ferris (1960), Hickman (1993), Munz (1974), and Parker (1999).

This methodology is consistent with recommendations by the California Native Plant Society (CNPS 2001), because it provides more than "reasonable coverage" of all habitat types and was "floristic in nature." Systematic field techniques in all habitats of the site (transects) were employed to ensure thorough coverage of potential impact areas that is sufficient to provide comprehensive reporting.

2.4) Burrowing Owl Survey Methods

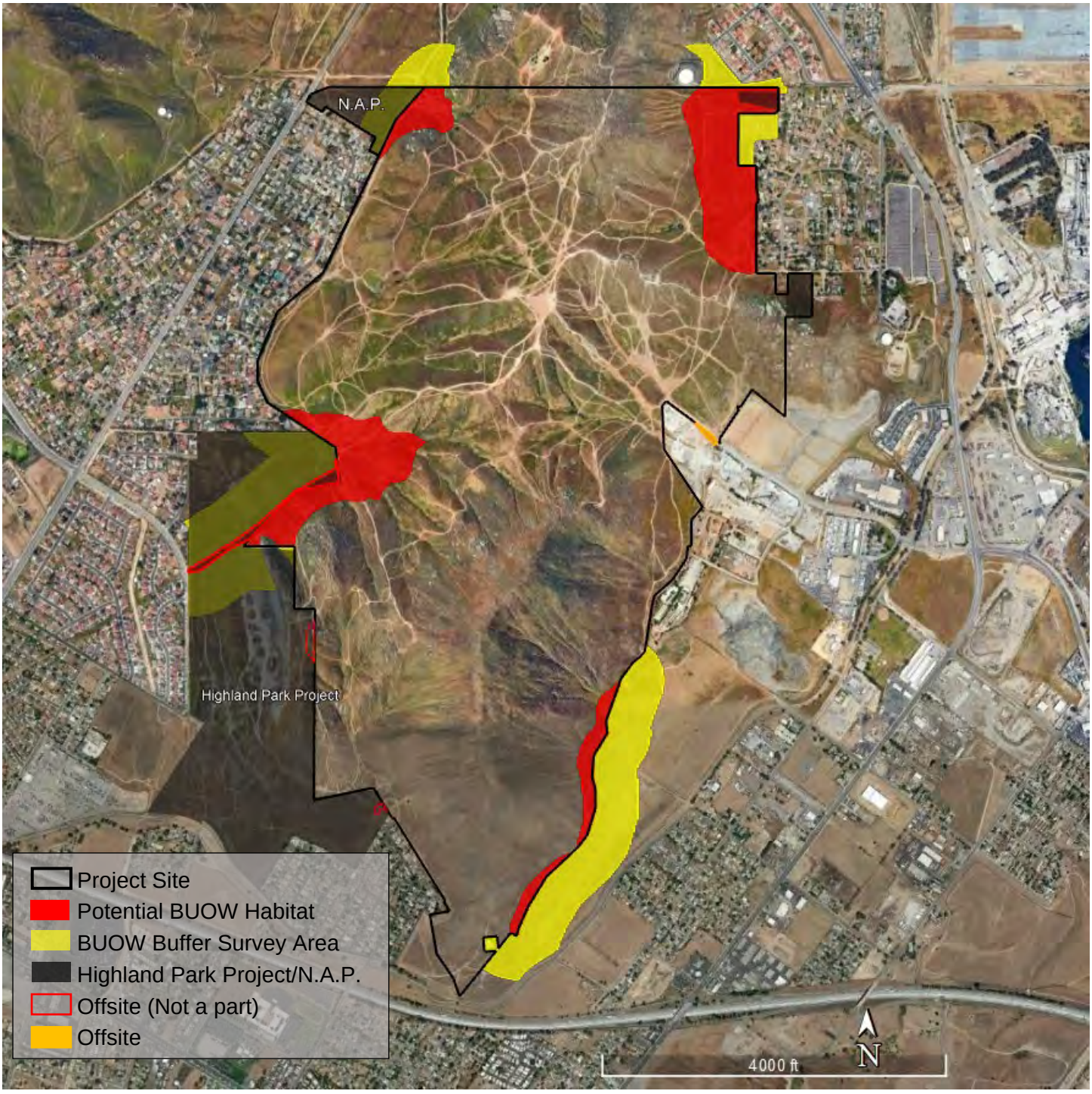
A total of about 53 person-hours were spent on the site conducting burrowing owl (BUOW) surveys between May 2014 and June of 2018 (Table 2). The survey area included the Project site and applicable buffers. The entire survey area was examined, and potential habitat areas were mapped. Suitable habitat within the site plus the required 500-foot buffer was evaluated for presence of burrowing owl using meandering transects to allow for visual coverage and habitat identification. Once potentially suitable habitat was identified and mapped, a focused burrowing owl survey was initiated. This survey was conducted in accordance with the Burrowing Owl Survey Instructions for the Western Riverside County Multiple Species Habitat Conservation Plan (EPD 2006). Surveys were conducted to determine the presence or absence of BUOW in the survey area.

Surveys must be conducted during the breeding season for BUOW (March 1 to August 31). However, surveys are best performed during the peak BUOW breeding season, which is generally considered to be from April 15 to July 15 in southern California. Protocol guidelines specify that BUOW surveys should be conducted during weather that is conducive to observing owls outside their burrows. Because BUOW is considered mostly crepuscular (active at dawn and dusk) in its activities, these guidelines suggest that surveys be conducted from one hour before to two hours after sunrise or from two hours before to one hour after sunset.

Based on protocols, surveys should be conducted on separate days and should not be conducted under any of the following weather conditions: wind speeds in excess of 20 mph, heavy rain, or dense fog. In addition, MSHCP survey instructions indicate that surveys will not be accepted if they are conducted within five (5) days following rain, during rain, during high winds, or in temperatures exceeding 90° F. Furthermore, these instructions state that focused surveys

conducted during the winter season only are not conclusive proof that BUOW is absent from a given site.

Surveys were performed in May and June of 2014, April, May, and June of 2016, and April and June of 2018. Surveys were mostly conducted on flat areas of the site (usually site margins) where potential BUOW habitat is present (Figure 4). Areas of dense vegetation, steep slopes, and canyon bottoms are not considered suitable habitat for BUOW and were excluded from surveys. Focused surveys were conducted in early morning or late afternoon hours in accordance with current BUOW survey protocols.



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Potential Burrowing Owl Habitat and Survey Area
Figure 4

Table 2. Burrowing owl survey dates and conditions.

Date	Time	Sunrise/Sunset	Weather	Wind (mph)	Biologist	Purpose
05/24/2014	0600-0830	0545/1954	Partly Cloudy, 53-59° F	1-2	Bruyea	BUOW
06/07/2014	0600-0800	0541/2002	Marine, 60-66° F	0-1	Bruyea	BUOW
06/14/2014	1730-1930	0541/2005	Sunny, 82-77° F	3-1	Bruyea	BUOW
06/15/2014	0630-0830	0541/2005	Sunny, 57-63° F	0-1	Bruyea	BUOW
06/19/2014	1800-2000	0541/2007	Sunny, 83-78° F	2-0	Bruyea	BUOW
06/30/2014	0600-0830	0544/2008	Cloudy, 59-64° F	1-1	Bruyea	BUOW
04/19/2016	0630-1130	0616/1928	Sunny, 68-80° F	1-4	Bruyea	BUOW
04/26/2016	0630-1130	0608/1933	Sunny, 61-70° F	0-1	Bruyea	BUOW
05/15/2016	0630-1130	0551/1948	Marine Layer, 61-67° F	0-1	Bruyea	BUOW
06/02/2016	0630-1130	0542/2000	Sunny, 65-79° F	0-2	Bruyea	BUOW
06/30/2016	0630-1130	0545/2008	Sunny, 67-76° F	0-1	Bruyea	BUOW
04/05/2018	0800-1100	0634/1916	Partly Cloudy, 64-71°F	0-2	Bruyea	BUOW
04/27/2018	0630-0930	0607/1933	Sunny / Clear, 61-67°F	0-1	Bruyea	BUOW
05/19/2018	0630-0930	0548/1950	Cloudy, 64-75°F	0-1	Bruyea	BUOW
06/09/2018	1500-1800	0541/2003	Sunny / Clear, 85-96°F	1-4	Bruyea	BUOW
06/30/2018	0630-0930	0544/2008	Sunny / Clear, 67-76°F	1-3	Bruyea	BUOW

Sunrise/sunset information from timeanddate.com, time adjusted for Daylight Savings Time as applicable.

2.5) Delhi Sands Flower-loving Fly Survey Methods

Mr. Bruyea (Permit #TE-837439) and Patrick Luft conducted focused surveys for Delhi Sands flower-loving fly (DSF) on the Project site during July, August, and September 2015 and 2016. A two-year focused survey (a full protocol survey) was conducted to collect site data on DSF and to supplement the previous one-year survey conducted by AMEC in 2005. During the 2015/2016 survey, the existing condition of habitat for DSF was mapped in order to verify and compare it with the 2005 survey (Figure 5). The survey was conducted per the USFWS protocol (USFWS 1996a, 2004a, 2004b), which requires surveys at least twice a week from July 1 to September 20 for two consecutive years. Surveys were conducted twice a week between July 1 and September 20, 2015 and between July 3 and September 14, 2016. All suitable soils and immediately adjacent areas were surveyed slowly to ensure complete coverage. Surveys were conducted between 1000 and 1400 PDT under relatively clear skies. Field conditions were recorded daily and a summary of survey dates and conditions is provided in Table 3. Figure 5. Potential Delhi Sands Flower-loving Fly Habitat Surveyed



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Delhi Sands Flower-Loving Fly Habitat
Figure 5

Table 3. Delhi Sands flower-loving fly field survey conditions

Date	Time	Temp (°F)	Cloud Cover (%)	Winds [A] (mph)	Winds [B] (mph)	Biologist
	Start-End	Start/End	Start/End	Avg/Max	Avg/Max	
2015 Week 1						
July 05	1000-1130	80/87	25/0	2.1/5.3	4.2/9.8	Bruyea
July 07	1000-1130	79/85	0/0	1.1/3.2	3.9/6.8	Bruyea
Week 2						
July 12	1000-1130	85/90	0/0	1.1/3.4	2.8/6.0	Bruyea
July 14	1230-1400	88/93	0/0	3.2/6.6	1.2/4.6	Luft
Week 3						
July 19	1000-1130	81/91	0/30	1.8/4.8	2.7/6.8	Bruyea
July 21	1200-1330	80/85	80/30	3.9/7.8	4.1/7.7	Bruyea
Week 4						
July 26	1000-1130	78/88	0/0	1.1/4.2	2.9/8.1	Bruyea
July 28	1200-1330	86/94	0/0	2.7/5.8	3.1/7.0	Bruyea
Week 5						
Aug 02	1000-1200	86/92	0/0	0.9/2.7	3.9/7.2	Bruyea
Aug 04	1000-1200	82/94	0/0	2.9/5.6	3.1/8.9	Bruyea
Week 6						
Aug 09	1100-1300	82/89	0/0	3.3/6.8	4.1/9.2	Bruyea
Aug 11	1000-1200	80/89	0/0	2.1/4.8	3.2/5.6	Bruyea
Week 7						
Aug 16	1000-1200	91/102	0/0	1.3/5.0	2.8/6.2	Bruyea
Aug 18	1000-1200	91/96	0/0	1.7/3.8	2.9/4.8	Bruyea
Week 8						
Aug 23	1100-1300	92/98	0/0	2.6/4.0	2.5/6.9	Bruyea
Aug 25	1000-1200	82/78	20/50	2.0/4.9	2.3/8.4	Bruyea
Week 9						
Aug 30	1100-1300	97/99	10/10	2.5/4.8	1.5/3.9	Bruyea
Sept 01	1230-1400	80/88	0/0	3.4/6.8	3.6/7.9	Bruyea
Week 10						
Sept 06	1130-1300	82/91	0/0	2.7/6.9	3.1/7.2	Bruyea
Sept 08	1000-1200	84/94	5/10	0.6/1.9	2.6/5.3	Bruyea
Week 11*						
Sept 13	1000-1200	89/96	0/0	1.3/2.9	2.6/4.8	Bruyea
Sept 15	Rain	68/72	100/100	N/A	N/A	Bruyea
Sept 17	1000-1200	80/84	20/20	1.1/3.9	2.0/5.7	Bruyea

Temperature and wind measurements were taken with a Kestrel 2000 Anemometer.
Winds A – Wind measurement (mph) at start of survey. Winds B – Wind measurement (mph) at end of survey.
*The September 15 survey was cancelled due to precipitation. Week 11 surveys were completed 9/17/2015.

Table 3. Delhi Sands flower-loving fly field survey conditions continued

Date	Time	Temp (°F)	Cloud Cover (%)	Winds [A] (mph)	Winds [B] (mph)	Biologist
	Start-End	Start/End	Start/End	Avg/Max	Avg/Max	
2016 Week 1						
July 03	1230-1400	81/85	0/0	2.9/5.6	1.2/4.8	Bruyea
July 07	1230-1400	88/92	0/0	1.3/4.2	5.9/7.8	Bruyea
Week 2						
July 12	1000-1130	83/89	25/25	1.4/5.4	3.0/7.1	Bruyea
July 14	1230-1400	98/102	0/0	2.2/3.8	4.2/5.9	Bruyea
Week 3						
July 17	1230-1400	97/100	0/0	1.0/2.8	3.5/7.8	Bruyea
July 21	1230-1400	99/104	0/0	2.9/5.2	3.1/6.1	Bruyea
Week 4						
July 25	1000-1130	81/87	50/50	0.8/2.2	2.5/4.1	Bruyea
July 28	1230-1400	100/105	0/0	2.7/5.8	5.1/9.0	Bruyea
Week 5						
July 31	1230-1400	91/95	July 31	1.6/2.7	2.6/5.2	Bruyea
Aug 04	1230-1400	97/102	Aug 04	1.9/4.4	4.1/6.1	Bruyea
Week 6						
Aug 07	1230-1400	86/91	Aug 07	3.7/4.9	5.1/8.0	Bruyea
Aug 09	1230-1400	83/87	Aug 09	2.0/3.3	3.1/7.0	Bruyea
Week 7						
Aug 12	1000-1130	76/80	0/0	1.2/5.0	1.4/5.2	Bruyea
Aug 18	1230-1400	93/99	0/0 (smoke)	2.3/3.8	4.0/7.8	Bruyea
Week 8						
Aug 21	1230-1400	94/98	0/0	2.0/4.0	2.2/5.7	Bruyea
Aug 23	1230-1400	86/92	0/0	2.9/5.1	2.4/6.6	Bruyea
Week 9						
Aug 26	1230-1400	81/85	25/25	1.5/3.8	3.5/3.9	Bruyea
Aug 30	1230-1400	100/105	0/0	2.6/3.8	3.1/5.9	Bruyea
Week 10						
Sept 02	1230-1400	82/86	0/0	2.7/6.9	3.1/7.2	Bruyea
Sept 07	1230-1400	90/94	0/0	2.9/3.9	4.1/5.6	Bruyea
Week 11						
Sept 12	1000-1130	70/76	100/0	0.5/1.8	2.6/4.8	Bruyea
Sept 14	1230-1400	80/85	25/0	1.4/3.3	3.5/5.9	Bruyea

Temperature and wind measurements were taken with a Kestrel 2000 Anemometer.
Winds A – Wind measurement (mph) at start of survey. Winds B – Wind measurement (mph) at end of survey.

2.6) Jurisdictional Delineation Methods

Potential for occurrence of state and federal waters and wetlands within the survey area was evaluated through a literature review and visits to the property. Literature reviewed included a previous jurisdictional delineation conducted by AMEC Earth & Environmental, Inc. (AMEC 2005a), soils maps and descriptions (Knect 1971), topographic maps (NRCS 2018), aerial photography (Google Earth 2021), and the list of wetland plants in California (USACE 2016).

Before visiting the survey area, a detailed topographic map of the property (received from Hunsaker & Associates) was studied and added as a layer over parcel shapefiles obtained from Riverside County (NAD83, California State Plane VI in feet). All features evident on the map were marked and considered potential waters/wetlands to be evaluated in the field. The feature systems were labeled for reference. All features were examined in the field (May/June 2015) by walking along their entire lengths, excluding slopes >1:1. A site visit was conducted on October 1, 2017 to update and verify the previous survey. The information was reviewed and updated for consistency with new regulations in 2018 and 2021 and field verified by CDFW in 2023.

Soil maps and descriptions of local soils have been obtained from NRCS (2018). Soils mapped in the survey area were listed and evaluated for their properties relating to potential wetlands. Soil conditions in the survey area were noted during the field visit and discrepancies between observations and SCS descriptions were further examined by digging soil pits where necessary. Soil color characteristics were evaluated using a Munsell soil color chart (Munsell 2012).

Vegetation within features was examined during field surveys. Dominant plant species were listed along with any potential indicators of wetland conditions. The vegetation criterion for wetlands is satisfied if half or more of the dominant plant species on a site are ranked as "obligate wetland," "facultative wetland," or "facultative" species (OBL, FACW, or FAC, respectively, see Table 4).

Table 4. Summary of Wetlands Vegetation Criteria

Category	Probability
Obligate Wetland (OBL)	Almost always occur in wetlands (estimated probability >99%)
Facultative Wetland (FACW)	Usually occur in wetlands (Estimated probability 67%-99%)
Facultative (FAC)	Equally likely to occur in wetlands and non-wetlands (est. probability 34%-66%)
Facultative Upland (FACU)	Usually occur in non-wetlands (estimated probability 67%-99%)
Obligate Upland (UPL)	Almost always occur in non-wetlands (estimated probability >99%)

MSHCP Riparian/Riverine and Vernal Pools

In conformance with the MSHCP, this report addresses Riparian/Riverine areas and vernal pools within the feature descriptions of each system. Where riparian vegetation is associated with features (and to the extent that it is native to California) we considered it suitable for a designation as Riparian under the MSHCP. Where flows evidence some level of energy, at least ephemerally, we considered them Riparian/Riverine in the broadest sense. To meet the definition of a vernal pool, three factors must be addressed: soils and soil conditions, hydrology, and one or more indicator species.

2.7) Offsite Impact Areas

LSA conducted biological surveys of the Highland Park site, including offsite impact areas for the Rio Vista Project. These surveys included a biological resources assessment (LSA 2004a), a focused survey for coastal California gnatcatcher (LSA 2004b, 2006c), a focused survey for burrowing owl (LSA 2005a), a habitat assessment for MSHCP narrow endemic plants (LSA 2005b), a focused survey for MSHCP narrow endemic plant species Brand's phacelia (*Phacelia stellaris*) (LSA 2005c), focused surveys for Delhi Sands flower-loving fly (LSA 2006b), a jurisdictional delineation (LSA 2004c, 2012), and an MSHCP compliance analysis (LSA 2006a). Impacts to these areas will be covered in the Highland Park reports and are not addressed in this report. Similarly, Highland Park offsite impacts within the Rio Vista Project are not addressed in this report as construction is underway.

No biological surveys were conducted of the offsite impact areas at 20th Street and Alicante Avenue, but L&L conducted a desktop review in May 2020.

3.0) RESULTS

3.1) Literature Review Results

The Project site is within the area covered by the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP requires an assessment of potential habitat for burrowing owl, riparian birds, and narrow endemic plants, as well as riparian/riverine habitat and species, vernal pools, and fairy shrimp. The narrow endemic plants are San Diego ambrosia (*Ambrosia pumila*), Brand's phacelia (*Phacelia stellaris*), and San Miguel savory (*Clinopodium [Satureja] chandleri*). If potential habitat is present, focused surveys are required. Additionally, soil maps indicate the presence of Delhi soils in the survey area, so identification of potential habitat and the presence/absence of Delhi Sands flower-loving fly are also required.

The Project site is not within any MSHCP Criteria Cells or Cell Blocks (Figure 21). There are no MSHCP or Public/Quasi-public (PQP) conserved lands adjacent to or within a mile of the Project site. MSHCP conserved lands in the Jurupa Hills are located about 1.03 miles to the west of the Project site and PQP lands along the Santa Ana River are about 1.27 miles southeast of the Project site.

3.1.1) Previous Survey Results

A focused survey by AMEC (2005b) found Delhi Sands flower-loving fly (federal endangered) present within an area along the western side of the full survey area. A preliminary jurisdictional delineation by AMEC (2005a) identified 1.55 acres of state waters and 0.56 acre of "Waters of the U.S." in the survey area. A total of 0.01 acre was classified as state and federal wetlands.

The general biological survey by AMEC (2006) did not identify any special status plant species in the survey area; however, one well-known oak (Palmer oak, no conservation status) recognized for its extreme age was observed and Plummer's mariposa-lily (California Rare Plant Rank [CRPR] 4.2) was documented as "reported" in the survey area via personal communication.

In addition to the Delhi Sands flower-loving fly, several special status bird, reptile, and mammal species were detected during the AMEC (2006) surveys, including northern harrier, Cooper's hawk, southern California rufous-crowned sparrow, coast horned lizard, coastal whiptail, red-diamond rattlesnake, and San Diego black-tailed jackrabbit. Granite spiny lizard (*Sceloperus orcutti*) was also detected but is no longer considered a special status species. Rosy boa (*Charina umbratica*) (also no longer considered a special status species) was documented as "reported" in the survey area via personal communication. A focused survey for burrowing owl (*Athene*

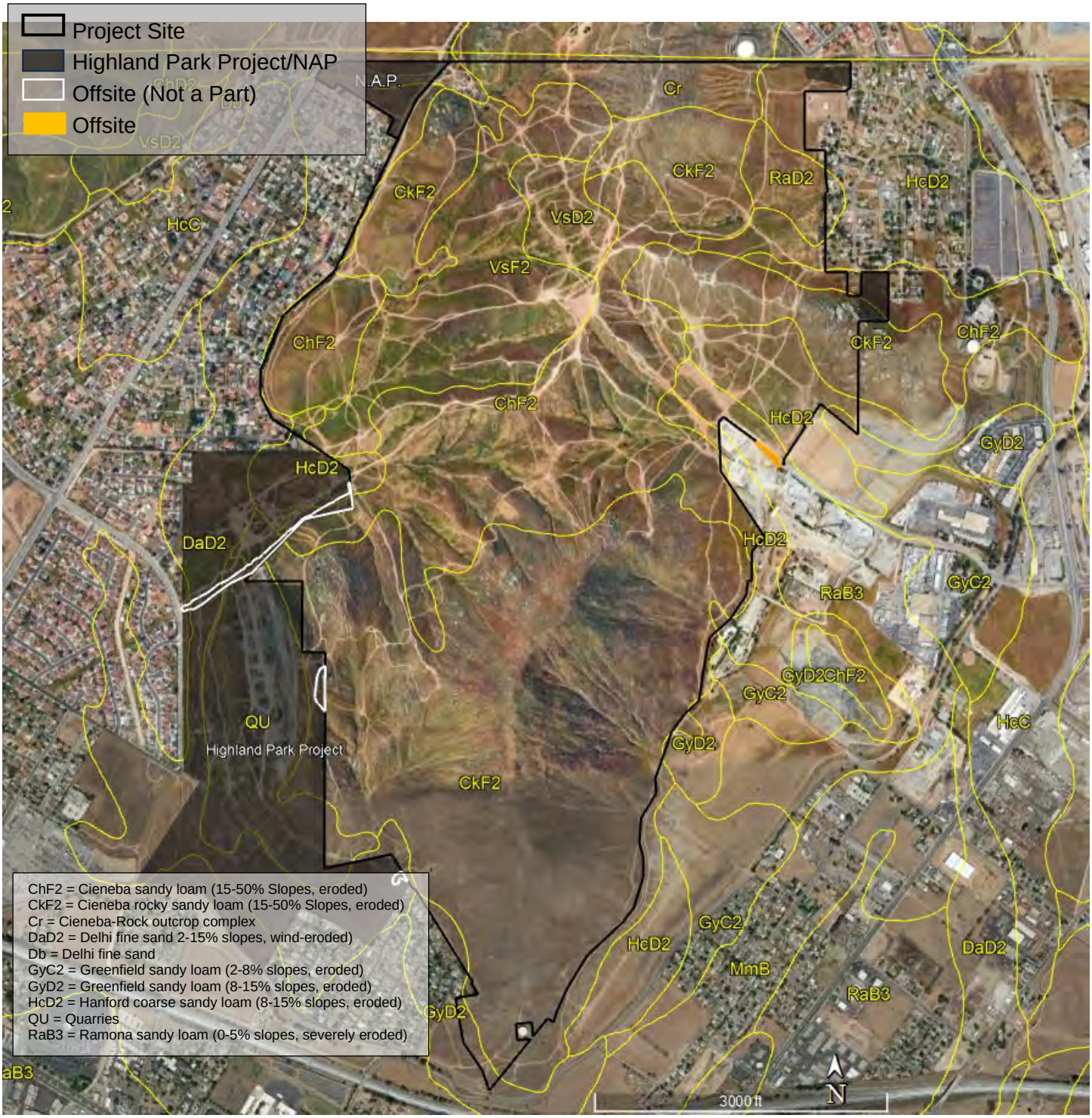
cunicularia) was conducted by AMEC in March and April of 2005 with negative results. The AMEC (2006) report concluded that the majority of the site is not suitable habitat for burrowing owl due to steep topography and dense vegetation. Most of the areas of potentially suitable habitat present are subject to disturbance from off road vehicles, trash dumping, and vegetation clearing for fire hazard abatement.

3.2) Soils and Topography

Topographically, the site is a ridge of hills containing a mixture of steep and low relief rolling hills with associated drainages or canyons. Elevation in the survey area ranges between 950 and 1,739 feet (290 to 530 meters) above mean sea level (AMSL).

Soils data for the survey area was obtained from NRCS (2021). The survey area is primarily rocky to sandy loams with a mixture of Cieneba sandy loam and rocky sandy loam (15-50% slopes, eroded), Greenfield sandy loam (8-15% slopes, eroded), Hanford coarse sandy loam (8-15% slopes, eroded), Ramona sandy loam (0-5% or 8-15% slopes, eroded or severely eroded), and Vista coarse sandy loam (8-35% slopes, eroded). Delhi fine sand (2-15% slopes, wind-eroded) is mapped along the northwestern site boundary and was observed to be present (Figure 6). Delhi fine sands are typically wind-blown and can move through physical sand transport processes similar to sand dunes. In the survey area, Delhi fine sands have been constrained to their current location by topography (onsite hills) to the east and by development to the west.

Soil at the 20th Street offsite impact area is mapped as Ramona sandy loam and at the Alicante Avenue offsite area is Hanford coarse sandy loam (Figure 6), but these areas are entirely disturbed and developed.



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Soils

Figure 6

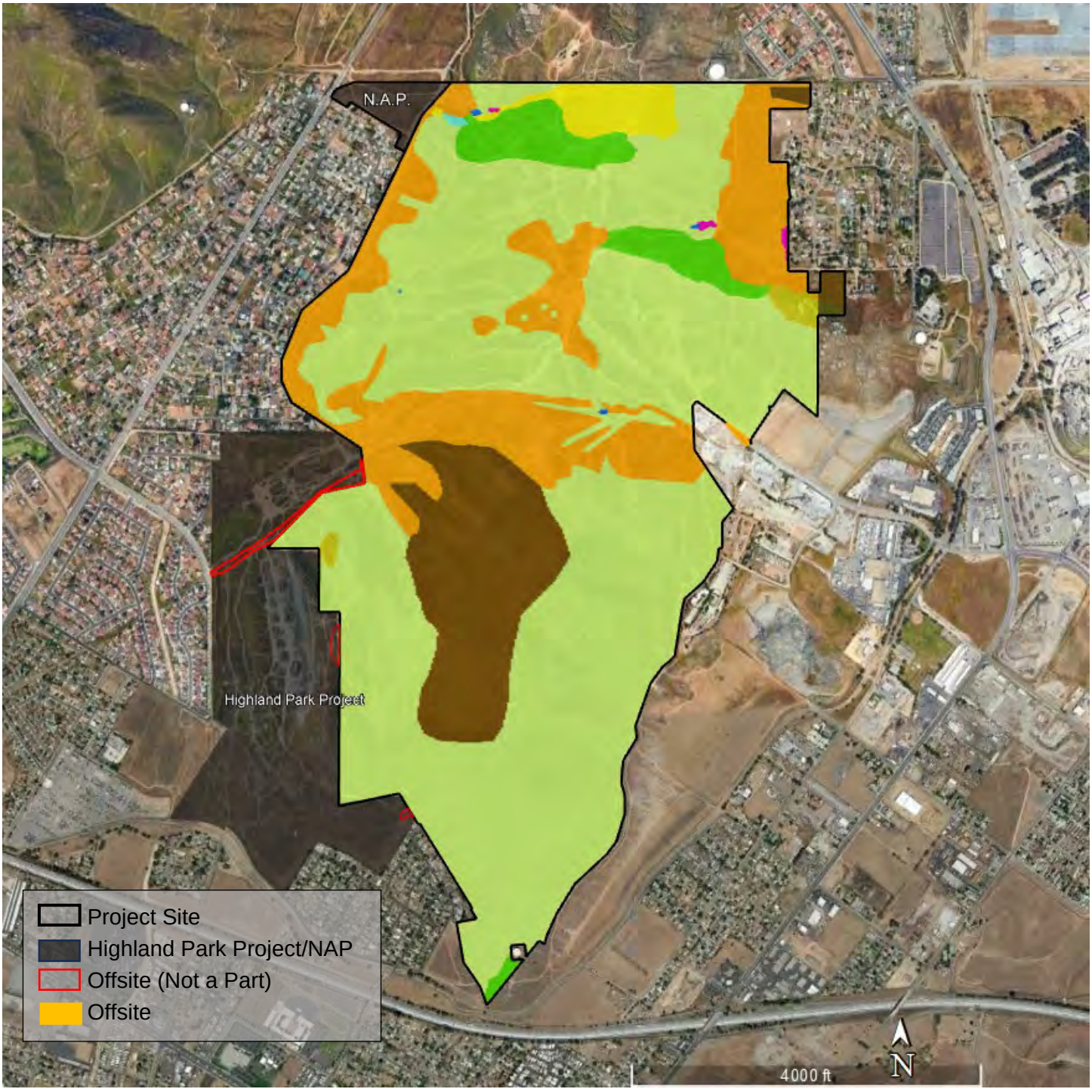
3.3) Vegetation and Setting

The site contains a mixture of steep hillsides, rolling hills, rocky outcrops, and low-relief canyons combined with relatively flat areas. Several unpaved roads are present on the site and some areas have been adversely impacted by historic and ongoing off-road vehicle use. Large areas of the site are almost completely devoid of vegetation due to these activities. Surrounding land use includes a mixture of low and high-density residential areas, fallow agricultural fields, commercial properties, mining, and open space. A previously graded area is noted on site plans (Hunsaker, October 1, 2020) on the west site of the site and covers approximately 1.35 acres (mapped as 0.92 acre of non-native grasslands and 0.42 acre of brittlebush scrub [*Encelia farinosa* Shrubland Alliance]).

Seven (7) vegetation communities or land cover types were identified during previous surveys: brittle bush scrub, California buckwheat scrub, chamise chaparral, willow scrub, non-native grasslands, ornamental vegetation, and developed land. The most recent survey refined the vegetation mapping and made minor adjustments in the boundaries and acreages of vegetation communities (Figure 7/7a, Table 5). One additional vegetation community was identified, bush penstemon scrub, which had previously been mapped as chamise chaparral.

The drainages and canyons on the site are primarily vegetated with upland habitats, but also contain small areas of riparian plants, including willow (*Salix* species) and mulefat (*Baccharis salicifolia*). Areas of Delhi fine sands occur in the survey area almost exclusively within non-native grasslands, with a small portion occurring in brittle bush scrub.

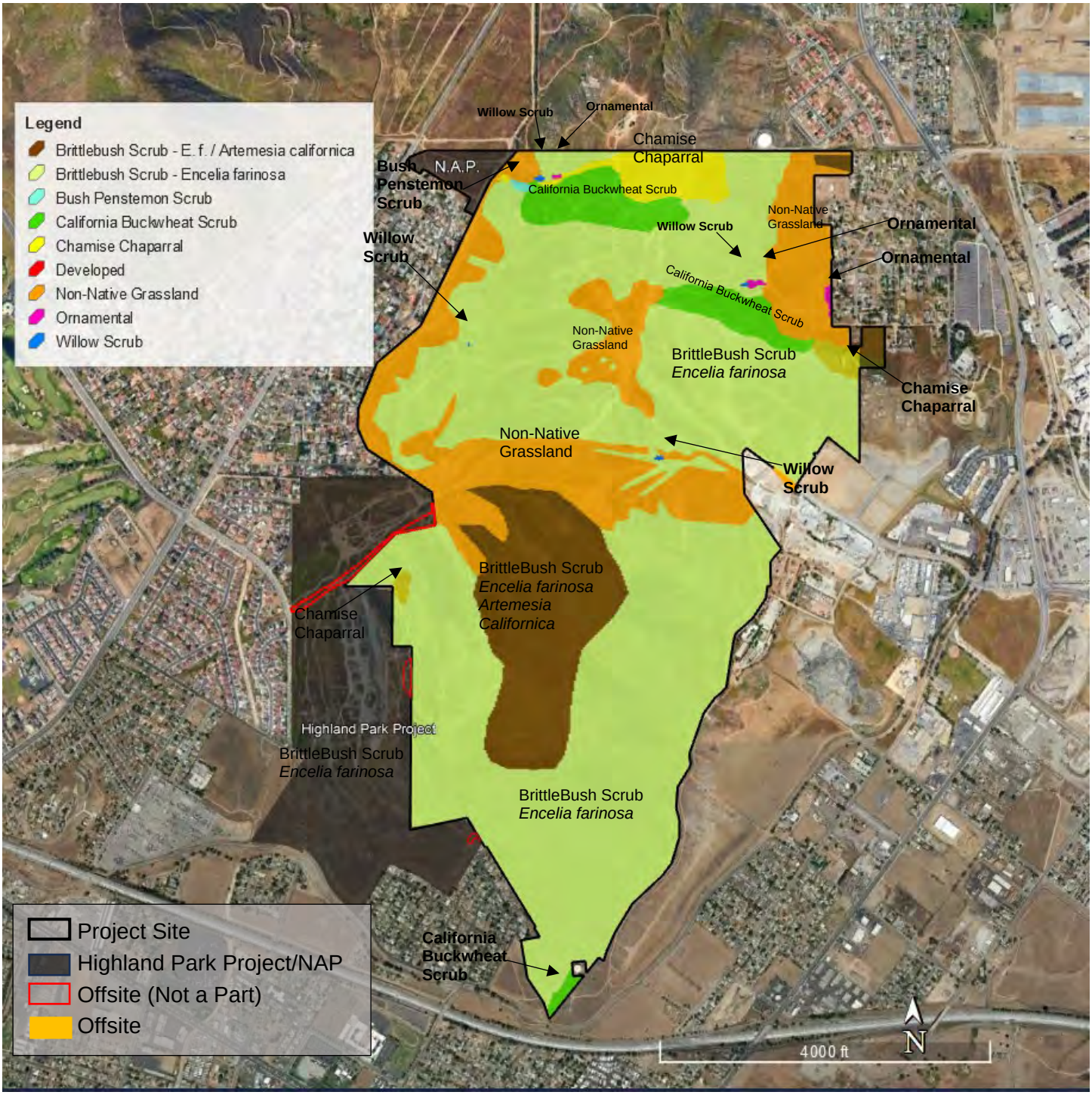
Based on a desktop review using Google Earth, the 20th Street and Alicante Avenue offsite impact areas are entirely disturbed and developed.



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Vegetation Map
Figure 7



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Vegetation Map with Labels
Figure 7a

Table 5. Habitat in the survey area

Vegetation Community	Alliance	Area (Acres)		
		Onsite	Offsite[1]	Total
Sage Scrub				
California Buckwheat Scrub	*Eriogonum fasciculatum-Encelia farinosa* Alliance	38.63	--	38.63
Brittle Bush Scrub	*Encelia farinosa* Alliance	579.68	--	579.68
Brittle Bush Scrub	*Encelia farinosa-Artemisia californica* Alliance	95.74	--	95.74
Chaparral				
Chamise Chaparral	*Adenostoma fasciculatum* Alliance	25.30	--	25.30
Sage Scrub-Chaparral				
Bush Penstemon Scrub**	*Keckiella antirrhinoides* Alliance	0.59	--	0.59
Grasslands				
Non-native Grassland	*Bromus* Semi-natural Stands	160.72	--	160.72
Riparian				
Willow Scrub	*Salix lasiolepis/Baccharis salicifolia* Alliance	0.39	--	0.39
Ornamental				
Ornamental	Not applicable	1.00	--	1.00
Developed				
Developed	Not applicable	0.07	0.31	0.38
Total Vegetation Communities		902.12	0.31	902.43
Delhi soils (within other mapped habitats)		19.97	--	19.97

Habitat acreages were revised in 2017; details of the changes can be found in L&L (2017). Two asterisks (**) indicates a sensitive vegetation community. 1. 20th Street and Alicante Avenue offsite areas.

3.3.1) Brittle Bush Scrub

Encelia farinosa Shrubland Alliance 33.030.00 and
Encelia farinosa – Artemisia californica Association 33.030.04

Brittle bush scrub is a drought-tolerant community dominated by brittlebush (*Encelia farinosa*), a short-lived subshrub that commonly occurs on alluvial fans, rocky hillsides, and other well-drained slopes. This alliance is considered a form of sage scrub, which generally occurs on rolling hills at lower elevations. This habitat is often found in close association with chaparral.

Much of the survey area contains a mixture of disturbed and relatively undisturbed *Encelia farinosa* Shrubland Alliance dominated by brittlebush with scattered patches of California buckwheat (*Eriogonum fasciculatum*), California sagebrush (*Artemisia californica*), and deerweed (*Acmispon glaber*). A portion of the survey area is mapped as *Encelia farinosa – Artemisia*

californica Association, which is a form of brittle bush scrub where California sagebrush is codominant. These vegetation communities both have a CDFW State Rank of S4 (apparently secure – uncommon, but not rare; some cause for long-term concern due to declines or other factors) and are not considered sensitive.

Other native plants observed within brittle bush scrub areas include, but are not necessarily limited to, wild cucumber (*Marah macrocarpa*) and wishbone bush (*Mirabilis californica*). Native annuals observed in these areas include forget-me-not (*Cryptantha* species), sapphire woollystar (*Eriastrum sapphirinum*), dove lupine (*Lupinus bicolor*), and wild hyacinth (*Dichelostemma capitatum*).

Delhi soils occur in patches and as a small percentage of the overall sandy soils in the survey area. Where present within this vegetation community, Delhi soils are immediately adjacent to larger areas of Delhi soils in more sparsely vegetated and disturbed habitats, such as non-native grassland.

3.3.2) California Buckwheat Scrub

Eriogonum fasciculatum – Encelia farinosa Association, 32.040.18

California buckwheat scrub on the site is dominated by California buckwheat and brittlebush. California buckwheat scrub commonly occurs on dry slopes, washes, and canyons that are scattered throughout foothills and mountains. This association is likely to be seral (an intermediate stage in ecological succession) to other plant communities. It is most often found on slopes that have been disturbed within the last 10 years. California buckwheat scrub forms an intermittent shrub canopy less than one meter (about three feet) tall over a variable or grassy ground layer. This vegetation community prefers shallow and rocky soils (Sawyer et al. 2009). It has a CDFW State Rank of S5 (secure – common, widespread, and abundant) and is not considered sensitive.

California buckwheat scrub occurs in two limited areas in the survey area: the southern tip of the site near the offsite water tank and on a steep north and northeast facing slope in the northeastern portion of the survey area. Some species associated with this plant community include deerweed and California sagebrush. Other native plants observed within California buckwheat scrub areas include, but are not necessarily limited to, California brickellbush (*Brickellia californica*) and cudweed aster (*Corethrogyne* [*Lessingia*] *filaginifolia*). Native annuals observed in these areas include slender pectocarya (*Pectocarya linearis*), fiddleneck (*Amsinckia intermedia*), filago (*Logfia*

species), pygmy stonecrop (*Crassula connata*), dodder (*Cuscuta* species), dove lupine, and wild hyacinth.

3.3.3) Bush Penstemon Scrub

Keckiella antirrhinoides Shrubland Alliance 32.065.01

Bush penstemon scrub has bush penstemon (*Keckiella antirrhinoides*) as a dominant or co-dominant in the shrub canopy. This vegetation community occupies transitional sites between chaparral and coastal scrub habitats. It has a CDFW State Rank of S3 (vulnerable – vulnerable to extirpation due to restricted range, relatively few populations, or other factors) and is considered sensitive.

One small area of bush penstemon scrub is located on a north-facing slope in the northwest corner of the site. Associated plant species are skunk bush (*Rhus aromatica*), spiny redberry (*Rhamnus crocea*), branching phacelia (*Phacelia ramosissima*), and rope vine (*Clematis pauciflora*).

3.3.4) Chamise Chaparral

Adenostoma fasciculatum Shrubland Alliance 37.101.16

Small areas of the site, mostly in association with higher elevation rocky hilltops and shaded northern slopes and ravines, are vegetated with chamise chaparral. This community is dominated by chamise (*Adenostoma fasciculatum*), which forms an intermittent to continuous canopy less than three meters (about 10 feet) tall. The understory is generally a sparse herbaceous layer, especially in older stands. Chamise chaparral is commonly found on the drier south and west facing slopes and ridges, growing in shallow soils. This vegetation community has a CDFW State Rank of S5 (secure) and is not considered sensitive.

The most common species associated with this community in the survey area include black sage (*Salvia mellifera*) and bush penstemon. Other plants observed in these areas include spiny redberry, hollyleaf cherry (*Prunus ilicifolia*), skunk bush, sticky monkeyflower (*Mimulus aurantiacus*), lanceleaf dudleya (*Dudleya lanceolata*), Bigelow spike-moss (*Selaginella bigelovii*), golden yarrow (*Eriophyllum confertiflorum*), and chia (*Salvia columbariae*).

3.3.5) Willow Scrub

Salix lasiolepis/Baccharis salicifolia (Willow/Mulefat) Association 61.201.06

This riparian community is composed of a mix of arroyo willow (*Salix lasiolepis*), mulefat (*Baccharis salicifolia*), and black willow (*Salix gooddingii*). This vegetation community has a CDFW State Rank of S4 (apparently secure) and is not considered sensitive.

Willows have well developed vegetative reproduction, giving the islands of habitat a clumped appearance (Klein and Evens 2006). This community is limited in the survey area, existing only in three very small areas. In addition, the habitat has been disturbed by human encroachment and trash dumping. The habitat supports few other riparian or wetland species and is not dense. What remains of this habitat in the survey area is sparse and damaged and often laden with discarded household material. It is present as patches of one or two willows with a mixed invasive and native understory. In some cases, non-native tree tobacco (*Nicotiana glauca*) and Peruvian pepper tree (*Schinus* species) are within or adjacent to willow scrub. Some portions of the trees support manmade structures or furniture. A single immature sycamore (*Platanus racemosa*) was also observed.

3.3.6) Non-Native Grasslands

Annual Brome Grasslands: *Bromus* Semi-natural Herbaceous Stands 42.026.00

Non-native grasslands consist of low herbaceous vegetation that is dominated by non-native annual grasses of various genera that are primarily of Mediterranean origin, including wild oats (*Avena* species), brome grasses (*Bromus* species), and Mediterranean grass (*Schismus* species). Small annual plants are also associated with this community and scattered throughout the habitat. Within this vegetation community are remnant plants associated with brittle bush scrub and California buckwheat scrub communities. This vegetation community is not considered sensitive.

This habitat is located along the western margins, within the central portion of the site, and in the northeastern corner of the site, just west of a low-density residential area. The majority of Delhi soils occur along the northern half of the westernmost edge of the survey area and almost all occur within this habitat type.

3.3.7) Ornamental Vegetation

Ornamental vegetation occurs within two drainages, as well as adjacent to the northeastern survey boundary, contiguous with offsite residential development. Within the drainage features, non-native ornamental vegetation consists of Peruvian pepper trees. Outside of the drainage features, non-native ornamental vegetation includes Peruvian pepper tree, olive, and other ornamental species.

3.3.8) Developed

Both the adjacent mine and the water tank are located very close to or partially on the subject property. To the extent that they are located within the study area, those areas have been mapped as developed. Offsite impact areas at 20th Street and Alicante Avenue are entirely developed.

3.4) Jurisdictional Areas (MSHCP Riparian/Riverine and Vernal Pool Habitat)

3.4.1) Jurisdictional Delineation

Twelve (12) non-relatively permanent water (Non-RPW) features (i.e., ephemeral carriers of periodic rainfall) with tributaries were identified within the Project site during the 2017 survey (Figure 8 and Table 14 in Appendix B). Rainfall runoff generally ceases to flow through the features within hours or a few days at most.

A jurisdictional delineation conducted in 2018 calculated jurisdictional areas in the survey area as 2.31 acres of CDFW streambed and 0.85 acre of CDFW wetlands for a total of 3.16 acres of state jurisdiction (Table 7).

A previously graded area is noted on site plans (Hunsaker, October 1, 2020) on the west site of the site and covers approximately 1.35 acres, including a portion of Feature 10 consisting of 191 linear feet and 0.015 acre of CDFW streambed/MSHCP Riverine. This is not included in calculations of the Project impact acreages.

The features on the property do not appear to be tributary to the Santa Ana River or any other relatively permanent water (RPW) or traditional navigable water (TNW). These features are ephemeral and therefore are not federal waters of the U.S. (WoUS) under current guidelines and the state wetlands do not meet the criteria for federal wetlands. The U.S. Army Corps of Engineers issued an Approved Jurisdictional Determination on February 11, 2021 stating that Waters of the U.S. do not occur on the Project site.

The updated 2023 jurisdictional delineation (L&L 2023) found 5.98 acres of CDFW streambed / MSHCP riverine habitat and 0.88 acre of CDFW wetland / MSHCP riparian habitat for a total of 6.86 acres of jurisdictional area on the site, of which 3.15 acres is considered waters of the state (Table 7). No federal waters and wetlands would be impacted since none are present.

The updated 2023 jurisdictional delineation (L&L 2023) found that the proposed Project would impact 5.98 acres of CDFW jurisdictional streambed and 0.88 acre of CDFW wetland and 3.15 acres of waters of the state (Table 7). No federal waters and wetlands would be impacted since none are present.

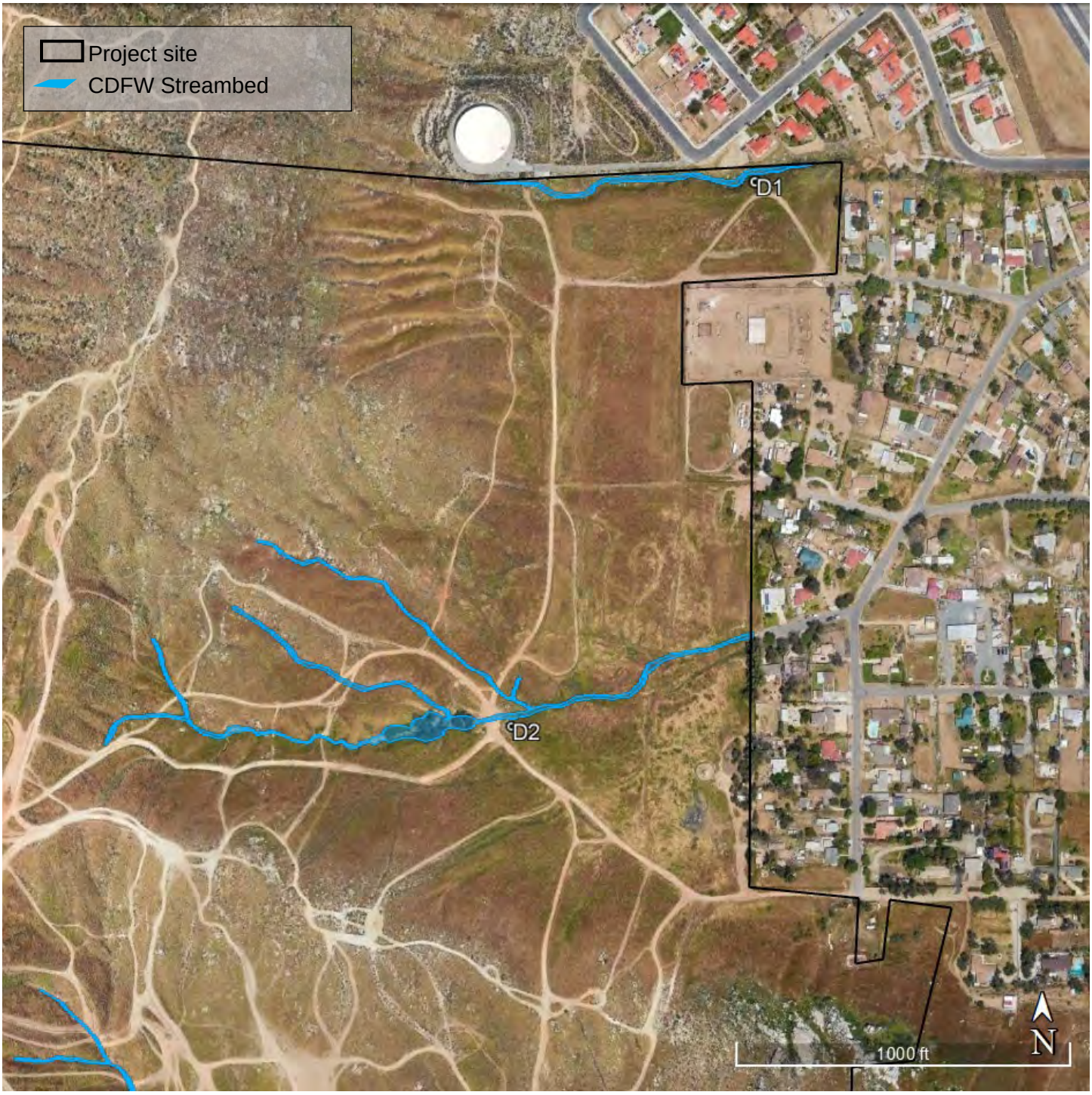
The 20th Street and Alicante Avenue offsite impact areas are entirely disturbed and developed. No jurisdictional areas are apparent in these areas on aerial images, but a jurisdictional delineation has not been conducted on these areas (Figure 8).



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

CDFW Streambeds
MSHCP Riparian Riverine Habitat
Figure 8



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Drainage 1 & 2
Figure 9



Aerial obtained from Google Earth, March 2023)

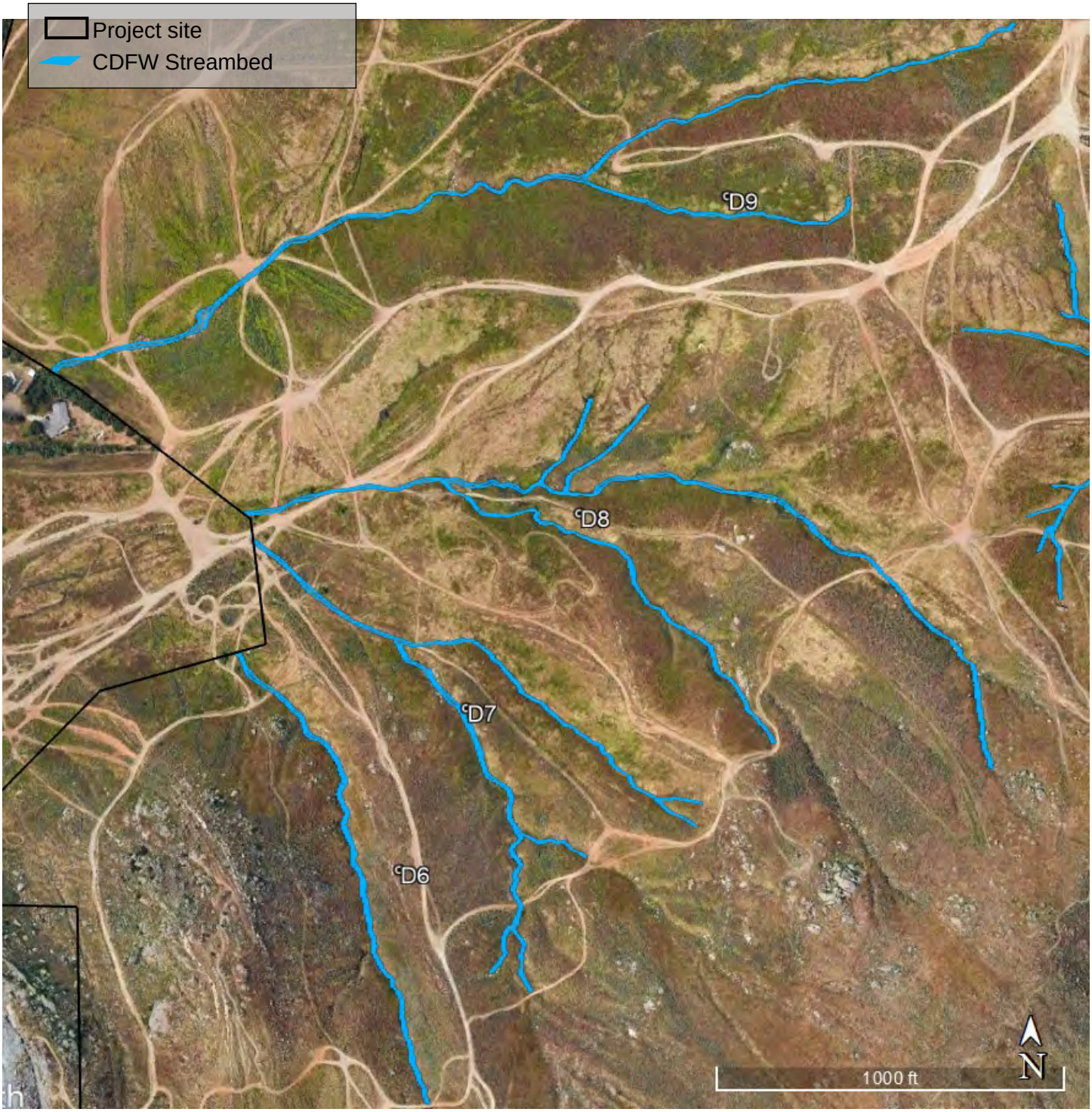
Rio Vista Project
Riverside County, California

CDFW Drainages 3, 4 & 12
Figure 10



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California
CDFW Drainage 5
Figure 11



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

CDFW Drainage 6, 7, 8, & 9
Figure 12



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

CDFW Drainage 10
Figure 13



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

CDFW Drainage 11
Figure 14



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

RWQCB State Waters Map
Figure 15

3.4.2) MSHCP Riparian/Riverine Habitat

Under MSHCP Volume 1 Section 6.1.2, areas associated with wetland and streambed systems must be evaluated for consideration as MSHCP Riparian/Riverine or vernal pool habitat. The site contains four (4) small areas of woody water dependent vegetation. Arroyo willow, black willow, and mulefat are present within a small part of Features 2, 4, 10, and 11. In addition, Peruvian pepper tree, although ornamental and invasive, is classified as a facultative upland species. Peruvian pepper trees are therefore included in the riparian vegetation calculations where they occur in or adjacent to drainage features. MSHCP Riparian habitat corresponds to the area mapped as CDFW wetland.

A streambed channel, either unvegetated or vegetated with upland species, generally qualifies as MSHCP Riverine habitat. Therefore, Riverine habitat occurs in a narrow band along the drainage features where riparian habitats are absent. MSHCP Riverine habitat corresponds to the area mapped as CDFW streambed.

Vernal pools are depressions where a relatively impermeable underground layer prevents rainwater from draining downward into the subsoils. During winter and spring rains, the water collects and remains in the depressions. The water gradually evaporates away until the pools become completely dry in the summer and fall. The soil texture (the amount of sand, silt, and clay particles) typically contains higher amounts of fine silts and clays with lower percolation rates. Pools that retain water for a sufficient length of time will develop hydric cells. Hydric cells form when the soil is saturated from flooding for extended periods and anaerobic conditions (lacking oxygen) develop.

Soil types are not consistent with an alkali playa or vernal pool complex and pools or depressions characteristic of vernal pool habitat were not found on the property. No features are present that would support fairy shrimp. No standing water or other sign of ponding water (e.g., mud cracks, tire ruts) were recorded.

The 20th Street and Alicante Avenue offsite impact areas are entirely disturbed and developed and no jurisdictional areas or MSHCP Riparian/Riverine areas are apparent from aerial images. However, these areas were not included in the Project at the time L&L performed a jurisdictional delineation.

3.4.3) Riparian/Riverine Species

No MSHCP species listed for protection associated with Riparian/Riverine areas and vernal pools were observed. No habitat is present within the survey area suitable to support Riparian/Riverine associated wildlife species as listed in the MSHCP Section 6.1.2 (arroyo toad, mountain yellow-legged frog, California red-legged frog, bald eagle, least Bell's vireo, peregrine falcon, southwestern willow flycatcher, western yellow-billed cuckoo, Santa Ana sucker, Riverside fairy shrimp, or vernal pool fairy shrimp). Based on the presence of willow species, surveys were conducted for habitat capable of supporting least Bell's vireo; none was found. No vernal pools or alkali playas occur and riparian vegetation in the survey area consists of four (4) small, isolated areas that are not of sufficient size, density, or composition to support species of concern.

Least Bell's vireo (*Vireo bellii pusillus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species is migratory and breeds in California, arriving in March and departing by September or October. Males establish and defend territories in riparian woodlands and riparian scrub. Dense shrub cover is required for nesting. The riparian habitat utilized by this species is limited to the immediate vicinity of water courses below 1,500 feet elevation (Dudek 2003). The willows present on the site are scattered and isolated and do not provide the dense riparian habitat required by this species. Therefore, there is no suitable habitat for least Bell's vireo and this species is considered absent from the site.

Southwestern willow flycatcher (*Empidonax traillii extimus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species inhabits dense riparian forests with ample numbers of willows and other associated trees and shrubs at elevations from sea level to 8,500 feet (Dudek 2003). The willows present on the site are scattered and isolated and do not provide the dense riparian habitat required by this species. Therefore, there is no suitable habitat for southwestern willow flycatcher and this species is considered absent from the site.

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is federally listed as threatened and state listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species inhabits extensive riparian thickets or forests with dense, low-level or understory foliage and abutting on slow-moving

watercourses, backwaters, or seeps (Dudek 2003). The willows present on the site are scattered and isolated and do not provide the extensive and dense riparian habitat required by this species. Therefore, there is no suitable habitat for western yellow-billed cuckoo and this species is considered absent from the site.

3.5) General Botanical Species

A total of 196 botanical species were observed on or adjacent to the survey area during biological surveys. Of these, 27 species were also observed during the AMEC surveys conducted in 2005. A list of all botanical species observed on the site is included in Table 9 (Appendix A).

3.6) General Wildlife Species

A total of 291 wildlife species were observed on or adjacent to the survey area during biological surveys. Of these, 115 species were only observed during the AMEC surveys conducted in 2005 and 2006. Most of the species are insects observed during the 2005 Delhi Sands flower-loving fly surveys. Wildlife species observed or detected in the survey area are characteristic of those expected to occupy habitats in the region. Wildlife is generally diverse and abundant due to the large area of natural open space but is partially restricted by development that surrounds the property on most sides. The survey area is largely comprised of a single vegetative community that may limit diversity of species occurring in the survey area. Habitats in the survey area provide foraging and cover habitat for year-round residents, seasonal residents, and migrating songbirds.

A list of wildlife species detected on the site is included in Table 10 (Appendix A). Dogs, cats, horseback riders, off-road vehicles, mountain bikers, hikers, and unauthorized campers were observed in the survey area and roamed freely throughout the area. The presence of free-ranging pets and heavy human use likely negatively affects nesting or breeding wildlife populations.

3.7) Listed and Special Status Botanical Species

State or federally listed and special status plant species were evaluated as a part of this assessment. These species are known from or may occur within the Project vicinity. Potential for occurrence of these species is listed in Table 12 (Appendix A). These species were either documented by the CNDDB as occurring within the Project topographic quadrangle, adjacent quadrangles, or were addressed in previous reports.

No state or federally listed plant species were observed and none were determined to have high or moderate potential to occur within the Project site. One special status plant species, Plummer's

mariposa lily (*Calochortus plummerae),* was observed in the survey area during the 2017 surveys (Figure 16). It was not observed during previous surveys in 2014, 2015, or 2016, nor was it observed during the 2018 survey. Two (2) other special status species, Robinson's peppergrass (*Lepidium virginicum* var. *robinsonii*), and mesa horkelia (*Horkelia cuneata ssp. puberula*), have potentially suitable habitat in the survey area and moderate potential for occurrence, but have not been observed.

A unique botanical resource, an ancient Palmer's oak (*Quercus palmeri*) is located within the survey area, but it is not a listed or special status species.

Thread-leaved Brodiaea

Thread-leaved brodiaea (*Brodiaea filifolia*) is federally listed threatened, state listed endangered, and has a CRPR of 1B.1. It is typically found in herbaceous plant communities, including non-native grassland, alkali playa, and vernal pool communities (Holland 1986), but also grows in open areas in shrub-dominated coastal sage scrub ecosystems. Within these communities, thread-leaved brodiaea occurs in open areas on clay soils, soils with clay subsurface, or clay lenses within loamy, silty loam, loamy sand, silty deposits with cobbles, or alkaline soils ranging in elevation from 100 feet to 2500 feet (USFWS 2005).

Thread-leaved brodiaea is covered species under the MSHCP and considered Adequately Conserved. Surveys are required in the criteria area, but the Project site is not within the criteria area. The Project site is not within USFWS designated critical habitat for this species. Thread-leaved brodiaea has a low potential for occurrence on the Project site (Appendix A, Table 12).

Plummer's Mariposa Lily

Plummer's mariposa lily has a CRPR of 4.2 (limited distribution). Plummer's mariposa lily was observed in the survey area but is considered a "Covered Species Adequately Conserved" under the MSHCP once conservation objectives have been met. "Covered Species Adequately Conserved" are those species that have met the species objectives set forth in Section 9.2 of the MSHCP and have "Take Authorization" through the MSHCP and associated permits. The objectives for Plummer's mariposa lily have been met and it is now considered Adequately Conserved (RCA 2019).

Mesa Horkelia

Mesa horkelia has a CRPR of 1B.1 (rare and endangered in California and throughout its range. This species inhabits chaparral, cismontane woodlands, and coastal scrub on sandy or gravelly soils. It is endemic to California and is found in the South Coast ranges, especially the foothill edge of the Los Angeles Basin. There are four (4) historic CNDDB records of this species within five (5) miles of the Project site from 1885 to 1908. It was not found during surveys. Potentially suitable habitat for mesa horkelia occurs onsite on steep slopes and rocky hillsides and the species has a moderate potential to occur. Mesa horkelia is not a covered species under the MSHCP.

Robinson's Pepper-grass

Robinson's pepper-grass has a CRPR of 4.3 (limited distribution) and is found in chaparral and coastal scrub. It is known from San Diego, Riverside, San Bernardino, Los Angeles, Ventura, and Santa Barbara counties, and some Channel Islands. There are four (4) CNDDB records within five (5) miles of the Project site. The CNDDB identifies the closest occurrence as one (1) mile southeast near the Santa Ana River (record from 1952). A potentially suitable habitat for Robinson's pepper-grass occurs onsite on steep slopes and rocky hillsides. The species was not observed during surveys but has a moderate potential to occur. Robinson's pepper-grass is not a covered species under the MSHCP.

Palmer's Oak

A single Palmer's oak is present within the eastern portion of the survey area. Although not a listed or special status species, this individual is a unique botanical resource. Palmer's oak is present as a cluster called a "clone" at one (1) locality. Evidence indicates that this locality is a single cloned individual. The size of the clone and estimates of annual growth led researchers to conclude that the clone is more than 13,000 years old and may be as much as 18,000 years old. This would date the tree to the Late Pleistocene, possibly soon after the last glacial period (May et al. 2009).

Southern California is known to have only remnants of this species that occur as small, isolated populations, likely due to the species' preference for cooler, wetter climates. This locality may be the oldest living Palmer's oak and potentially the oldest plant in California. Although Palmer's oak is not a listed or special status species, this oak is a unique individual specimen and is very uncommon within cismontane Western Riverside County. Riverside County provides Oak Tree Management Guidelines throughout the County and this species may qualify for protection.

The Palmer's oak location was intentionally omitted from Figure 16. Due to the Palmer's oak's individual importance and uniqueness, the exact location and photographs have been placed in a "Confidential" Appendix (D) and the distribution of information regarding this plant should be limited.

3.7.1) Narrow Endemic Plant Species

The MSHCP requires a habitat assessment for the following Narrow Endemic plants: San Diego ambrosia, Brand's phacelia, and San Miguel savory. These species were not observed during focused botanical surveys and suitable habitat is either lacking or of poor quality. These species are considered absent from the site.

The 20th Street and Alicante Avenue offsite impact areas are entirely disturbed and developed and native habitat for narrow endemic plants is not present.

San Diego Ambrosia

San Diego ambrosia (*Ambrosia pumila*) is federally listed as endangered and has a CRPR of 1B.1 (rare and endangered in California and throughout its range). It is distributed within western Riverside County and western San Diego County and further south in widely scattered populations along the west coast of Baja California, Mexico (CNPS 2021, Munz 1974, Reiser 2001). The CNDDB identifies only one record within five (5) miles of the Project site (Element Occurrence [EO] #50) and it is located approximately 4.25 miles southwest of the survey area (record from 1940) and has been extirpated by development. All other records are at least 19 miles south of the site. There is no USFWS designated critical habitat for this species on the property.

According to the USFWS final critical habitat posting (USFWS 2010), ". . . we believe that periodic flooding may be necessary at some stage of the plant population's life history (such as seed germination, dispersal of seeds and rhizomes) or to maintain some essential aspect of its habitat, because native occurrences of the plant are always found on river terraces or within the watersheds of vernal pools."

Propagation is primarily through extensions of rhizomes (underground stems) indicating that each population could be a single plant and restricted to the immediate appropriate habitat. San Diego ambrosia is sensitive to seasonal conditions and variation causing the amount of above-ground biomass to fluctuate from year to year. Flowers are generally present from April to October (CNPS 2021). Because a portion of San Diego ambrosia populations remain dormant in dry years and

because of its vegetative similarity to other *Ambrosia* species, it is difficult to inventory in terms of identification, number of individuals, and true spatial extent of populations.

No suitable habitat for this species was observed in the survey area and the site is likely on the margin of its geographic range. San Diego ambrosia was not observed during multiple years of surveys, including focused botanical surveys, and is considered absent from the site.

Brand's Phacelia

Brand's phacelia (*Phacelia stellaris*), also known as Brand's star phacelia, has a CRPR of 1B.1 (rare and endangered in California and throughout its range). The CNDDB documents 15 occurrences in California (CDFW 2021). Observations range from Los Angeles County, inland to Riverside County, and south to Mexico. Many of the records are historic; most of the recent records are located in San Diego County.

The CNDDB documents an occurrence from 2000 (EO #13) in Rancho Jurupa Park within the Santa Ana River floodplain, approximately 1.75 miles south of the survey area. Another occurrence from 2003 (EO #16) is documented (CDFW 2021a) near Rancho Cucamonga about 9.3 miles northwest of the Project site but has likely been extirpated by development.

Brand's phacelia occurs in open habitats on sandy soils, coastal dunes, and coastal scrub. Flowers are generally present from March through June (CNPS 2021). Light to moderate disturbance may benefit the species (MSHCP BMP 2016).

Potentially suitable habitat occurs in the survey area, but it is regularly impacted and heavily disturbed by off-road vehicle use. The species was not observed during multiple years of surveys, including focused botanical surveys. Brand's phacelia is considered absent from the site.

San Miguel Savory

San Miguel savory (*Clinopodium chandleri*) has a CRPR of 1B.2 (rare and endangered in California and throughout its range). It is distributed within western Riverside County, southeastern Orange County, and western San Diego County, California (CNPS 2021). CNDDB records within Riverside County show all populations are associated with the Santa Ana Mountains, Elsinore Mountains, and Santa Rosa Plateau. There are no records north of Lake Elsinore (CDFW 2021a), located about 24 miles south of the Project site.

This species is found on rocky, gabbroic, and metavolcanic soils in coastal sage scrub, chaparral, cismontane and riparian woodlands, and grasslands. Flowers are generally present from March

through July (CNPS 2021).

Potentially suitable habitat occurs in the survey area, but the survey area is to the north of the known range of the species. San Miguel savory was not observed during multiple years of surveys, including focused botanical surveys, and is considered absent from the site.

3.8) Listed and Special Status Wildlife Species

3.8.1) Listed Wildlife Species

Wildlife species listed as endangered, threatened, fully protected, or candidates for listing as endangered or threatened were evaluated as a part of this assessment. Potential for occurrence of these species is listed in Table 12 (Appendix A). These species were either documented by the CNDDB to occur within the Project topographic quadrangle or adjacent quadrangles, addressed in previous reports, or identified by the USFWS, MSHCP, or other source as potentially occurring in the area.

One listed wildlife species was observed on the Project site during surveys from 2014 through 2018, coastal California gnatcatcher (*Polioptila californica*; federal threatened, CDFW Species of Special Concern) (CAGN), discussed below.

Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*; federal endangered) was observed during surveys of the site by AMEC in 2005 (AMEC 2005b) and discussed below. This species was not observed during 2015/2016 protocol surveys. No other federal or state listed threatened or endangered wildlife species have been observed on the site during surveys.

Due to the presence of riparian habitat (despite the general lack of habitat suitability) and the MSHCP requirement for evaluation of riparian/riverine habitats with regard to special status species, least Bell's vireo (*Vireo bellii pusillus*; federal and state endangered) is also discussed in more detail below.

Crotch bumble bee (*Bombus crotchii*), a candidate for state listing, was observed on the Project site during the 2005 biological surveys conducted by AMEC (AMEC 2006). It was not observed during subsequent surveys of the site by L&L, but focused surveys for this species have not been conducted.

Delhi Sands Flower-loving Fly

Delhi Sands flower-loving fly (DSF) was listed by USFWS under the Federal Endangered Species Act of 1973, as amended, on September 23, 1993 (USFWS 1993). DSF is restricted in distribution to the Colton Dune system, which covers an area of approximately 40 square miles in the cities of Colton, Rialto, Fontana, and Ontario. It is estimated that as much as 97 percent of formerly known DSF habitat has been converted for human uses or has been adversely impacted by various anthropogenic disturbances. No critical habitat has been designated for this species.

Although few DSF feeding behaviors have been observed by researchers to date, indications are that the flowers of California buckwheat (*Eriogonum fasciculatum*) may be a potentially important nectar resource (G. Bruyea, pers. obs.). Other indicator plant species are California croton (*Croton californicus*) and telegraph weed (*Heterotheca grandiflora*). Scattered patches of California buckwheat are present within the mapped California brittle bush scrub habitat on the site. California croton and telegraph weed are also present on the site.

Most DSF are observed perching on the soil surface or on plants in sparsely vegetated areas (such as unpaved roads or trails) adjacent to or within occupied habitat. Male flies are most often observed, usually defending territories or flying in search of females for mating. Adult flies are active during the late summer months of August and September, when temperatures in the region often rise above 100° F. DSF larval development takes place underground within Delhi series sands for the remaining months of the year and adult flies emerge from pupal cases located just under the soil surface. Much of the life history of DSF (e.g., food source, lifespan of the immature stages, etc.) is poorly known.

DSF was observed on the western portion of the site by AMEC biologists in August 2005. Adult flies were observed on four (4) separate dates and carcasses of dead flies were located on two (2) other dates. All DSF observations were made within an approximately 3.73-acre area on the western edge of the site, where flat areas containing Delhi series (sandy) soils are present next to a residential area (Figure 19). Other sandy areas totaling approximately 17.52 acres along the western (primarily northwestern) portion of the site were surveyed with negative results.

A previously graded area is noted on site plans (Hunsaker, October 1, 2020) on the west site of the site and covers approximately 1.35 acres, which includes 0.93 acre of DSF habitat, all within 2005 mapped occupied habitat.

L&L conducted a two-year focused survey in 2015 and 2016 to document the status of DSF in the survey area and to map any changes to the habitat. Focused surveys were conducted

between July 1 and September 20, 2015 and between July 3 and September 14, 2016. Despite a thorough survey effort, no DSF were observed.

During the 2015-2016 DSF survey, it was noted that insect diversity and overall numbers appeared to be lower than past years. Many insects commonly observed in 2015 on the site were absent or rarely observed in 2016. In addition, Hymenoptera (bees and wasps) and Lepidoptera (butterflies and moths) were conspicuously uncommon or even absent during some survey days.

In disturbed areas, such as the Rio Vista site, Russian thistle (*Salsola tragus*) and annual sunflower (*Helianthus annuus*) have been reliable nectar resources (and observation areas) for insects during the hot summer months. In 2016, these plants were low in number and many were stunted. As a result, nectar resources were uncommon throughout the survey area.

Off-road vehicle impacts are common on the Project site. Many of the roads/trails in the survey area have been widened significantly over the years because of increased traffic. Most notably there is increased disturbance to the sandy area at the central portion of the site where historic DSF observations have occurred. California croton was once common in this area and is almost extirpated. Because of ongoing disturbance over the last decade and a lack of DSF sightings during focused studies in 2015 and 2016, it is likely that DSF has been extirpated from this area.

DSF has been recorded just north (offsite) of the Rio Vista site in a small sandy area or "blowout." This population has been referred to as the "Rattlesnake Mountain" colony, which is adjacent to an abandoned mine. This area lies just north of the Riverside-San Bernardino County line (approximately 300' north of the site boundary) and is situated on a northwest-facing slope.

DSF is a covered species under the MSHCP and considered Adequately Conserved. Conservation efforts for this species under the MSHCP are focused on suitable habitat and linkages within Core Areas or adjacent to conserved habitats, including those that are not within MSHCP Criteria Areas. The Rio Vista site is not in or adjacent to a Core Area or a Criteria Area.

Coastal California Gnatcatcher

Coastal California gnatcatcher is federally listed as threatened and a CDFW Species of Special Concern. This small, insectivorous songbird occurs almost exclusively in several distinctive sub-associations of the coastal sage scrub plant community (USFWS 1993). The present survey area is not located within the revised critical habitat (USFWS 2007) for this species.

There are seven (7) CNDDB records for coastal California gnatcatcher in the Project vicinity (within 5 miles) (CDFW 2021a). Five of the occurrences are within the Jurupa Hills: approximately 1,000 feet north of the site from 1999 (one pair and one individual; EO #934), approximately 0.7 mile northwest of the site from 1995 (5 nesting pairs; EO #462), and three occurrences about 3 miles west from 1994 (2 males and 1 female; EO #467), 1994 (3 adults; EO #474), and 1998 (4 adults and 1 juvenile; EO #507). One occurrence is within the Pedley Hills, about 2.1 miles west-southwest of the site from 1997 (one immature; EO #527). The last occurrence is recorded about 3.6 miles northeast of the site in 1924 (EO #452). This area is now a large cement plant and the habitat is likely extirpated.

Three (3) coastal California gnatcatchers, possibly dispersing juveniles, were incidentally observed during botanical surveys in 2017 (Figure 15). The survey area includes suitable habitat for coastal California gnatcatcher and it has moderate potential for occurrence.

The coastal California gnatcatcher is considered a "Covered Species Adequately Conserved" under the MSHCP. The Jurupa Mountains Subunit conservation efforts include conserving large intact habitat blocks consisting of coastal sage scrub, chaparral, and grasslands to support coastal California gnatcatchers. Although the site is not within the Subunit, the Project avoids approximately 366 acres of coastal sage scrub and 59 acres of chaparral and grasslands combined.

Riparian Birds

Least Bell's vireo (*Vireo bellii pusillus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species is migratory and breeds in California, arriving in March and departing by September or October. Males establish and defend territories in riparian woodlands and riparian scrub. Dense shrub cover is required for nesting.

Southwestern willow flycatcher (*Empidonax traillii extimus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species inhabits dense riparian forests with ample numbers of willows and other associated trees and shrubs.

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is federally listed as threatened and state listed as endangered. It is a covered species under the MSHCP and considered

adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2 and mitigation is required if the species is present. This species inhabits extensive riparian thickets or forests with dense, low-level or understory foliage and abutting on slow-moving watercourses, backwaters, or seeps.

The limited riparian vegetation in the survey area does not provide suitable habitat for least Bell's vireo, southwestern willow flycatcher, or western yellow-billed cuckoo. Although willow and cottonwood species are present in small areas, the diversity and density of the vegetation is not adequate to support these species. Therefore, there is no suitable habitat for these species on or adjacent to the site and they are considered absent.

Crotch Bumble Bee

Crotch bumble bee is a candidate for state listing as endangered (as of March 2023). It occurs in open grassland and scrub habitats and nests underground. Food plants include *Asclepias*, *Chaenactis*, *Lupinus*, *Medicago*, *Phacelia*, and *Salvia* (Williams et al. 2014). The range of this species includes all of California, but the majority of records are south of San Francisco along the coast and western desert into southern California.

There are four CNDDB records within five (5) miles of the site. The closest observation of this species is from 1938 (EO #185), approximately 1.4 miles north of the site, with a second record from 1938 (EO #184) about 4.4 miles north-northeast, and a third record from 1976 (EO #198), about 1.9 miles southeast of the survey area. A more recent occurrence (EO #427) was documented in April 2020 in an urban native plant garden about 3.0 miles east-southeast of the Project site.

Suitable habitat for the species occurs in sage scrub and coastal sage-chaparral scrub within the survey area and it was recorded as observed in the survey area during the 2005 DSF focused survey (AMEC 2005b). This record is not in the CNDDB database.

Crotch bumble bee is not a covered species under the MSHCP. Impacts require incidental take permitting.

3.8.2) Special Status Species

Special status wildlife species known from or expected to occur within the Project vicinity were evaluated as a part of this assessment. Potential for occurrence of these species is listed in Table 12 (Appendix A). These species were either documented by the CNDDB to occur within the

Project quadrangle or adjacent quadrangles, were addressed in previous reports covering the survey area, or were identified by the USFWS, MSHCP, or other source as potentially occurring in the area.

Nine (9) special status wildlife species were observed during the 2014, 2015, 2016, 2017, and/or 2018 biological surveys: Cooper's hawk (*Accipiter cooperii*), southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), Lawrence's goldfinch (*Spinus lawrencei*), northern harrier (*Circus hudsonius*), great egret (*Ardea alba*), Costa's hummingbird (*Calypte costae*), red-diamond rattlesnake (*Crotalus ruber*), orange-throated whiptail (*Aspidoscelis hyperythra*), and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) (see Figure 16 and Table 15). Rosy boa (*Lichanura trivirgata*) was also observed but is no longer considered a special status species by CDFW. Two (2) other special status wildlife species were observed during the 2005 biological surveys conducted by AMEC (AMEC 2006): coast horned lizard (*Phrynosoma blainvillii*) and coastal whiptail (*Aspidoscelis tigris stejnegeri*).

Eighteen (18) other special status wildlife species were determined to have high or moderate potential to occur in the survey area, based on presence of suitable habitat, species range, and proximity to known occurrences. These species are: southern California legless lizard (*Anniella stebbinsi*), California glossy snake (*Arizona elegans occidentalis),* San Diego banded gecko (*Coleonyx variegatus abbotti*), San Bernardino ringneck snake (*Diadophis punctatus* ssp. *modestus*), coast patch-nosed snake (*Salvadora hexalepis virgultea*), sharp-shinned hawk (*Accipiter striatus*), Bell's sage sparrow (*Artemisiospiza belli belli*), wrentit (*Chamaea fasciata*), California horned lark (*Eremophila alpestris actia*), peregrine falcon (*Falco peregrinus anatum*), loggerhead shrike (*Lanius ludovicianus*), Allen's hummingbird (*Selasphorus sasin*), Brewer's sparrow (*Spizella breweri*), black-chinned sparrow (*Spizella atrogularis*), northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*), pallid bat (*Antrozous pallidus*), western mastiff bat (*Eumops perotis californicus*), and pocketed free-tailed bat (*Nyctinomops femorosaccus*).

Of the species observed or that have high or moderate potential to occur in the survey area, the MSHCP considers the following species "Covered Species Adequately Conserved:" orange-throated whiptail, coastal whiptail, coast horned lizard, San Diego banded gecko, red-diamond rattlesnake, Cooper's hawk, sharp-shinned hawk, Bell's sage sparrow, southern California rufous-crowned sparrow, California horned lark, peregrine falcon, loggerhead shrike, northern harrier, northwestern San Diego pocket mouse, and San Diego black-tailed jackrabbit.

Those species with suitable habitat and potential for impacts that are not covered by the MSHCP include great egret, Lawrence's goldfinch, wrentit, Allen's hummingbird, Brewer's sparrow, black-

chinned sparrow, Costa's hummingbird, southern California legless lizard, California glossy snake, San Bernardino ringneck snake, coast patch-nosed snake, pallid bat, western mastiff bat, and pocketed free-tailed bat.



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Special Status Species Observed
Figure 16

Great Egret

The great egret is a CDFW Special Animal. It is found in marshlands, riparian forests, irrigated pastures, and wetlands. It nests in colonies in large trees. There is no suitable nesting habitat on the site and no or marginal foraging habitat. The species was detected during surveys, but it is unknown if it was observed foraging on the site or just flying over.

Lawrence's Goldfinch

Lawrence's goldfinch is a CDFW Special Animal and a USFWS Bird of Conservation Concern. This species typically nests in arid, open woodlands near chaparral, fields, and small bodies of water (Davis 1999). The species feeds mostly on seeds of annual plants, with a preference for fiddlenecks (*Amsinckia* species) in its breeding range; in winter, its diet varies by region. These birds generally travel in pairs or flocks. Its breeding range is confined to the Central Valley and coastal foothills of California, as well as the northern portion of Baja California. The nearest CNDDB record (nesting: EO #4) for the Lawrence's goldfinch is 3.5 miles southwest of the survey area (CDFW 2021a).

Although suitable woodland nesting habitat does not occur on the site, this species was observed foraging in the survey area.

Wrentit

The wrentit is a USFWS Bird of Conservation Concern. It is found in chaparral, shrublands, and oak woodlands. It is a year-round resident in southern California. It was not observed during surveys, but there are multiple eBird records of this species in the vicinity of the Project site.

Allen's hummingbird

Allen's hummingbird is a USFWS Bird of Conservation Concern. It is found in chaparral, scrub, and forest. It breeds in and migrates through southern California. It was not observed during surveys, but there are many eBird records of this species in the vicinity of the Project site.

Brewer's Sparrow

Brewer's sparrow is a CDFW Special Animal and a USFWS Bird of Conservation Concern. It is found in treeless shrub and desert scrub habitats. In California, it is a summer resident and breeder east of the Cascade-Sierra Nevada crest, in mountains and higher valleys of Mojave

Desert, and in those bounding the southern end of the San Joaquin Valley. It is uncommon in southern California at higher elevations of San Bernardino, Ventura, Kern, and San Luis Obispo Counties during the breeding season. There are no CNDDB records (nesting) in southern California. Its winter range includes southern Mojave and Colorado deserts. It was not observed during surveys but was identified on the adjacent Highland Park site. This may have been a migrating individual.

Black-chinned Sparrow

The black-chinned sparrow is a USFWS Bird of Conservation Concern. It is not tracked in the CNDDB. It is migratory and breeds in southern California in the Coast Ranges, Transverse Range, Peninsular Range, and mountains of southeastern California. It is found in chaparral, sagebrush, and arid scrublands on rugged slopes. It was not observed during surveys but was identified on the adjacent Highland Park site.

Costa's Hummingbird

Costa's hummingbird is a CDFW Special Animal and a USFWS Bird of Conservation Concern. It is a year-round resident in southern California and found in chaparral, coastal scrub, desert scrub, open meadows, and gardens. The CNDDB only tracks nesting for this species and there are no records in the CNDDB database. There is suitable habitat on the site and the species was observed during surveys of the Project site.

Southern California Legless Lizard

The southern California legless lizard is a CDFW Species of Special Concern. It is a snake-like, limbless, burrowing lizard that occurs from central California to northern Baja California, Mexico. Habitat for this lizard includes sparsely vegetated washes, beaches, chaparral, and certain woodlands. Legless lizards require loose soil (such as sand, loam, or leaf litter) for burrowing. There are 20 CNDDB records of this species within five (5) miles of the Project site. The closest record is just south of the survey area (CDFW 2021a). This species is secretive and difficult to detect.

Suitable habitat for the species occurs in the survey area and it has a moderate potential to occur.

California Glossy Snake

The California glossy snake is a CDFW Species of Special Concern. This species inhabits arid scrub, rocky washes, grassland, and chaparral. It appears to prefer microhabitats of open areas

and areas with soil loose enough for easy burrowing (Nafis 2018). The California glossy snake ranges from the San Francisco Bay Area south into Baja California, Mexico and is found from sea level to around 7,218 feet elevation (Nafis 2018). The CNDDB documents six (6) occurrences within five miles of the site. There is one historic record from 1935 (EO #101) near the southern end of the Project site (but exact location unknown).

The species was not observed during surveys, but suitable habitat for this species occurs in the survey area. The species has a high potential to occur.

San Bernardino Ringneck Snake

San Bernardino ringneck snake is a CDFW Special Animal. It occurs in relatively rocky areas within woodland, chaparral, or grassland, usually in moist habitats. The species is endemic to California and ranges from Santa Barbara south along the coast to San Diego County and inland into the San Bernardino Mountains (Nafis 2018). There are no CNDDB occurrences for this species within five miles of the survey area.

This species was not observed during surveys, but suitable habitat is present in the survey area. This species has a moderate potential to occur.

Coast Patch-nosed Snake

Coast patch-nosed snake is a CDFW Species of Special Concern. This snake is an active, diurnal resident of shrublands with open sandy areas. This species is found from San Luis Obispo County through coastal southern California to northern Baja California (Nafis 2018). There are no CNDDB records for this species within five miles of the survey area.

Suitable habitat is present on the Project site in open areas of chaparral and sage scrub habitats with sandy and loose soils and this species has a high potential for occurrence.

Pallid Bat

Pallid bat is a CDFW Species of Special Concern. This species roosts in cliff faces and rock outcrops but can also be found in manmade structures or trees. Roosting and foraging locations are common in dry, open shrubland habitat, typically near water and below 6,000 feet in elevation. This species occurs in much of California except the high mountains. Pallid bats will hibernate in small groups in the winter. The CNDDB has over 400 records of this species throughout California. The closest record of this species in the CNDDB is in Redlands (EO #244), approximately 11 miles west-northwest of the survey area.

Suitable roosting habitat occurs in the rock outcrops on the site and suitable roosting and foraging habitat occurs on and adjacent to the survey area. This site does not have a consistent water source but is just over a mile from the Santa Ana River and Lake Evans and several quarry basins are less than a mile away. This species has a moderate potential for occurrence.

Western Mastiff Bat

Western mastiff bat is a CDFW Species of Special Concern. This species primarily roosts in cliff faces and rock outcrops, but may occasionally roost in high buildings, trees, and tunnels. It inhabits a variety of habitats, including dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, montane meadows, and agricultural areas. This species occurs from San Francisco south into much of southern California. CNDDB records identify this species throughout southern and central California, with the greatest concentration in the coastal areas of southern California. There are two (2) CNDDB records within five miles of the Project site. The closest is in the Pedley area (EO #172) from 1954, approximately 3.3 miles southwest of the survey area (but exact location unknown). The other record (EO # 83) is from 1933 near Colton, about 3.7 miles northeast of the site.

Suitable roosting habitat on the site is limited to rock outcrops, although a steep cliff face is present just offsite to the west. Suitable foraging habitat occurs on and adjacent to the survey area. This site does not have a consistent water source, but the site is just over a mile from the Santa Ana River and Lake Evans and several quarry basins are less than a mile from the survey area. This species has a moderate potential for occurrence.

Pocketed Free-tailed Bat

Pocketed free-tailed bat is a CDFW Species of Special Concern. This species primarily roosts in crevices of high cliffs, but can also roost in caves, rock crevices, and manmade structures (bridges, mines, etc.). It inhabits arid lowland areas and is associated with creosote bush and chaparral habitats. It prefers prominent rock features or rocky canyons. This species occurs from southwestern Texas west through New Mexico and Arizona into southern California and south to Mexico. CNDDB records identify this species mainly in southwestern southern California. There are two records of this species within five miles of the Project site, EO #22 about 3.0 miles south of the survey area (from 1988, uncertainty in location of two miles) and EO #23 about 3.6 miles northeast (from 1985, uncertainty in location of nine miles).

Suitable roosting habitat onsite includes rock outcroppings and crevices. Suitable roosting and foraging habitat occurs within and adjacent to the survey area. This species has a moderate potential for occurrence.

3.8.3) MSHCP Additional Survey Needs Species

Burrowing Owl

The burrowing owl is a CDFW Species of Special Concern and a USFWS Bird of Conversation Concern. The MSHCP identified the burrowing owl as an "Additional Needs Species" for the survey area, requiring a habitat assessment and (if warranted) focused surveys for the species. The burrowing owl historically occurred throughout much of California; however, many former populations have vanished.

The burrowing owl occurs as a resident in open areas of the lowlands across much of the southern California region (Garrett and Dunn 1981). It requires open expanses of sparsely vegetated areas on gently rolling or level terrain with an abundance of small mammal burrows. It uses rodent or other burrows for roosting and nesting cover or may dig its own burrow in soft, friable soil. In southern California, burrowing owl nesting areas are often found in association with California ground squirrel activity. Burrowing owl may also use pipes, culverts, and other manmade structures. One burrow is typically selected for use as the nest site and additional satellite burrows are usually found in the immediate vicinity of the nest burrow within the territory of the owl.

Open habitats and small rodent burrows were identified in the study area. No burrowing owl or burrowing owl sign was identified in the survey or buffer areas during the 2005 focused survey conducted by AMEC (AMEC 2006). L&L conducted focused surveys in 2014, 2016, and 2018. California ground squirrels were observed in the survey area, but not in high numbers. Most were observed in association with rocky outcrops within the southwestern portion of the site. All existing mammal burrows were thoroughly examined for evidence of burrowing owl, including molted feathers, prey remains, pellets, eggshell fragments, and whitewash. Approximately 75.2 acres of suitable burrowing owl habitat was identified within the site and buffer zone, but no burrowing owls or owl sign were observed.

Delhi Sands Flower-loving Fly

See Section 3.8.1.

3.9) Wildlife Corridors

Wildlife corridors link together areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. The fragmentation of open space areas by urbanization creates isolated "islands" of wildlife habitat. In the absence of habitat linkages that allow movement to adjoining open space areas, various studies have concluded that some wildlife species, especially larger and more mobile mammals, will not likely persist over time in fragmented or isolated habitat areas because movement barriers prohibit the infusion of new individuals and genetic information.

Corridors mitigate the effects of this fragmentation by:

- Allowing animals to move between remaining habitats, thereby permitting depleted populations to be replenished and promoting genetic exchange;
- Providing escape routes from fire, predators, and human disturbances, thus reducing the risk that catastrophic events (fire, disease, etc.) will result in population or local species extirpation; and
- Serving as travel routes for individual animals as they move within their home ranges in search of food, water, mates, and other necessary resources.

Wildlife movement activities usually fall into one of three movement categories: dispersal (e.g., juvenile animals dispersing from natal areas or individuals extending their range), seasonal migration, and movements related to home range activities (e.g., foraging for food or water, defending territories, or searching for mates, breeding areas, or cover).

3.9.1) Connectivity

The survey area is bordered by residential development to the west with some undeveloped land to the northwest; residential, agricultural, and open land to the north; residential, industrial, and agricultural development to the east; and residential development to the south with some undeveloped land to the southeast. The survey area is north and west of MSHCP Core A (Santa Ana River) and lies between Noncontiguous Habitat Block 2 (Jurupa Mountains) and Block 3 (Delhi Soils).

The site includes habitat that supports a variety of wildlife species. The survey area can connect to the north and then northeast with the Jurupa Mountains and MSHCP designated Noncontiguous Habitat Block 2 (Jurupa Mountains), but the survey area and this habitat block are otherwise remote and do not connect with Core habitat blocks. Core A (Santa Ana River) is closest and lies approximately one (1) mile southeast, but it is separated from the survey area by

roadways and a combination of commercial, industrial, and residential development. While large, the site does not offer connection between wildlife use areas.

The site is a parcel of such a size as to allow wildlife to move freely throughout the survey area and in some cases to surrounding areas via existing travel routes, such as drainages, ridgelines, and existing dirt roads and trails. Based on the surrounding level of development, the Project site mainly provides for movement on a smaller, localized scale for species that live within the survey area and immediately adjacent open lands and are reasonably tolerant of human activity and proximity.

4.0) ANALYSIS OF POTENTIAL EFFECTS

The following discussion examines potential impacts to biological resources that may occur as a result of implementation of the proposed Project. Impacts can be direct, indirect, or cumulative. Direct impacts are those that are caused by a project and occur at the same time and place. Indirect effects are reasonably foreseeable and caused by a project but occur at a different time or place. Cumulative impacts are two or more individual effects which, when considered together, compound or increase other environmental impacts. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor, but collectively significant projects taking place over a period of time.

Direct impacts include the loss, modification, or disturbance of vegetation communities, which in turn, directly affect plant and wildlife species dependent on those habitats, as well as the destruction of individual plants or wildlife. Direct impacts also include any effects that result from vegetation or ground disturbing activities during construction, including associated dust, noise and vibration, etc.

Indirect impacts are the result of such things as the introduction of invasive plants and animals; predator subsidies (i.e., food, water, perch sites, etc.) that lead to increased predation on wildlife; and harassment or predation by domestic animals. These impacts may change the behavioral patterns of wildlife and reduce native plant and wildlife diversity and abundance in habitats adjacent to project sites.

Under the CEQA Guidelines (2018 revision), project impacts on biological resources are potentially significant if one or more of the following conditions would result from implementation of the proposed Project:

a) A substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.

b) A substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the CDFW or USFWS.

c) A substantial adverse effect on state or federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) direct removal, filling, hydrological interruption, or other means.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

Impacts were evaluated with respect to general biological impacts, state and/or federal listed species, special status species, and sensitive habitats. Impacts to jurisdictional features (including drainages and wetlands) and issues of local concern (such as the Riverside County MSHCP) were also evaluated. Impacts were calculated based on the conceptual plan provided to L&L by Hunsaker & Associates on May 20, 2020 (Figure 17) with an additional 10-foot buffer around the Project.

4.1) Vegetation Communities

This section includes impacts to habitat and vegetation communities present on the Project site. Impacts result mainly from permanent removal of vegetation and habitat and direct and indirect impacts by construction associated with the development. Text of mitigation measures is provided in Section 6.0.

Impact: Development of the Rio Vista Project could result in loss of habitat and sensitive vegetation communities.

Implementation of the proposed Project would result in the permanent loss of about 477 acres of habitat (Table 6, Figure 18). The 477 acres of impacted habitat add to the reduction in availability of nest/den sites and foraging habitats for species that utilize shrublands, grasslands, and disturbed habitats. With implementation of Mitigation Measure BIO-2 (Conserve Open Space), approximately 426 acres of habitat will be deed restricted as open space and will be available to support plant and wildlife species that utilize the site. Mitigation Measure BIO-1 (Flag or Fence Impact Areas) and BIO-11 (Biological Monitoring and Clearance Surveys) would ensure that construction activities do not encroach on avoidance areas. With implementation of Mitigation Measures BIO-1 and BIO-2, impacts to common vegetation communities on the Project site would be adverse, but less than significant.

There is one sensitive vegetation community on the site, bush penstemon scrub, and approximately 0.10 acre of this vegetation (about 17 percent of the total on site) will be

permanently impacted by the Project. Mitigation Measure BIO-2 (Conserve Open Space) would conserve the remaining 0.49 acre (83 percent of the total on site) within open space areas. Bush penstemon scrub is ranked as S3 (vulnerable to extirpation) and the loss of 0.10 acre of this vegetation community, coupled with the conservation of the remaining 0.49 acre, is not expected to significantly impact regional abundance. With implementation of Mitigation Measure BIO-2, impacts to bush penstemon scrub would be less than significant.

Included in the vegetation impacts are 6.86 acres of MSHCP Riparian/Riverine areas, consisting of 5.98 acres of Riverine areas and 0.88 acre of Riparian willow scrub and ornamental/Peruvian pepper tree vegetation (where it falls within a drainage feature) (based on 2023 jurisdictional delineation). Mitigation Measure BIO-5 requires mitigation at no less than a 2:1 ratio.

Impacts to habitat in the immediate Project vicinity could potentially occur as a result of erosion and runoff, fugitive dust, and invasive species. Clearing the site of vegetation will reduce water absorption after rain events and increase runoff. In addition, use of heavy equipment and maintenance of those vehicles and use of other toxic substances in construction could result in accidental spills, leaks, or other release into the environment. Mitigation Measure BIO-6 (SWPPP) incorporates standard BMPs into Project implementation. BMPs reduce potential for discharges entering Riparian/Riverine areas.

Use of heavy equipment, exposing soils, and accessing the site on dirt roads will all result in higher than usual fugitive dust and emission levels during clearing, which can affect the health and growth of local plants and the health and behavior of local wildlife. Dust particles settling on vegetation can reduce photosynthesis, block leaf stomata, and/or block uptake into leaf tissues (Farmer 1993). These impacts can most notably reduce vegetation growth rates. Long-term impacts are expected to be similar to current levels. Mitigation Measure BIO-6 (SWPPP) incorporates standard BMPs into Project implementation and BIO-12 (Wildlife Hazards) restricts vehicles on unpaved roads to 15 mph. Standard BMPs require watering when necessary to reduce fugitive dust, subject to local water restrictions.

A potential increase in non-native species, which may impact native plant species, may occur along Project margins where newly exposed soils not developed or landscaped could provide fertile ground. Invasive species occur within the impact area and could disperse seed to newly turned soil. Invasive and noxious weed species seeds could be spread or introduced into the area by vehicles or machinery. Mitigation Measure BIO-15 reduces the potential for spread of noxious and non-native species by utilizing certified weed-free products on the site, prohibiting

the use of invasive plants in landscaping, washing heavy equipment prior to bringing it onsite, and limiting staging of equipment to areas not occupied by noxious weeds.

Human and pet encroachment will be reduced by Mitigation Measure BIO-17, which requires compliance with the Urban and Wildlands Interface guidelines. Measures detailed in Section 7.4 (Urban/Wildlands Interface) include the incorporation of rear yard fencing and/or steep inaccessible slopes between the avoided areas and development in the Project design, as well as signage and homeowner education.

With the incorporation of the Mitigation Measures outlined above, impacts to vegetation communities will be less than significant.

Table 6. Impacts to Vegetation Communities by the Proposed Project.

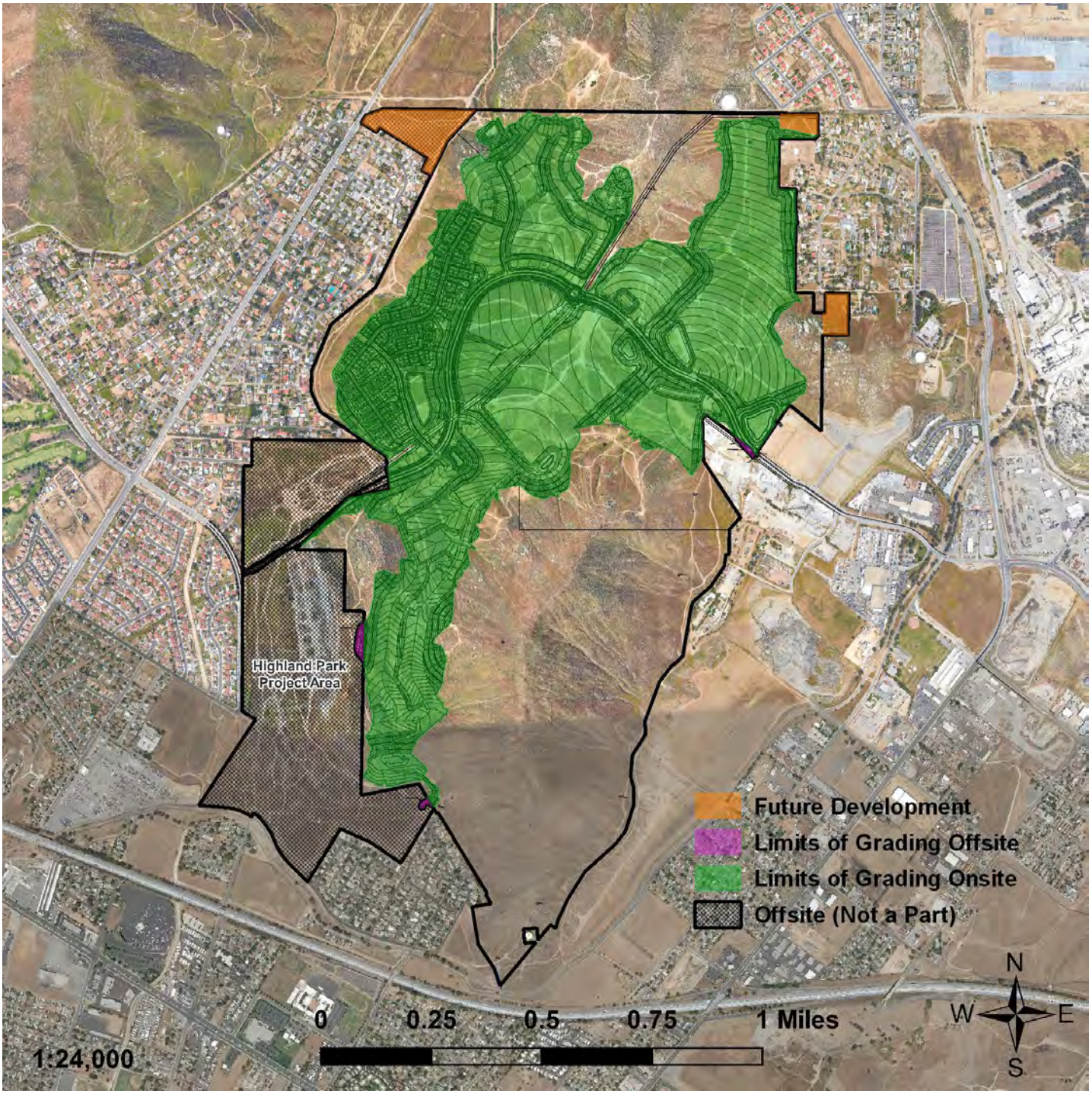
Vegetation Community	Area (acres)					
	Project Site	Onsite Impacts	Avoided Area	Riparian Impacts	Offsite Impacts	Total Impacts
Sage Scrub						
California Buckwheat Scrub	38.63	32.31	6.32	--	--	32.31
Brittle Bush Scrub (*E. farinosa*)	579.68	290.40	289.28	--	--	290.40
Brittle Bush Scrub (*E. farinosa-A. californica*)	95.74	24.90	70.84	--	--	24.90
Subtotal	714.05	347.61	366.44	--	--	347.61
Chaparral						
Chamise Chaparral	25.30	3.93	21.37	--	--	3.93
Sage Scrub-Chaparral						
Bush Penstemon Scrub**	0.59	0.10	0.49	--	--	0.10
Grasslands						
Non-native Grassland	160.72	123.18	37.54	--	--	123.18
Riparian						
Willow Scrub	0.39	0.33	0.06	0.33	--	0.33
Ornamental						
Ornamental	1.00	1.00	0.00	0.45	--	1.00
Developed						
Developed	0.07	0.07	0.00	--	0.31	0.38
TOTAL	902.12	476.22	425.90	0.78	0.31	476.52

Two asterisks (**) indicates a sensitive vegetation community. Minor discrepancies in totals due to rounding error.

Table 7. Impacts to MSHCP Riparian/Riverine on the Project Site (based on 2018 jurisdictional delineation)

Drainage Identifier	MSHCP Riparian / Riverine Habitat		Impacted Upland Vegetated or Unvegetated Riverine Acres	Impacted Riparian Facultative Vegetated Acres
	Drainage Area sq. ft.	Drainage Acreage		
1	10,912	0.25	0.25	0.00
2	45,083	1.03	0.58	0.45
3	15,729	0.36	0.36	0.00
4	36,152	0.83	0.72	0.12
5	25,435	0.58	0.58	0.00
6	11,782	0.27	0.27	0.00
7	21,677	0.50	0.50	0.00
8	30,427	0.70	0.70	0.00
9	27,560	0.63	0.63	0.00
10	36,680	0.84	0.81	0.03
11	28,156	0.65	0.37	0.28
12	9,263	0.21	0.21	0.00
Total	**298,856**	**6.86**	**5.98**	**0.88**

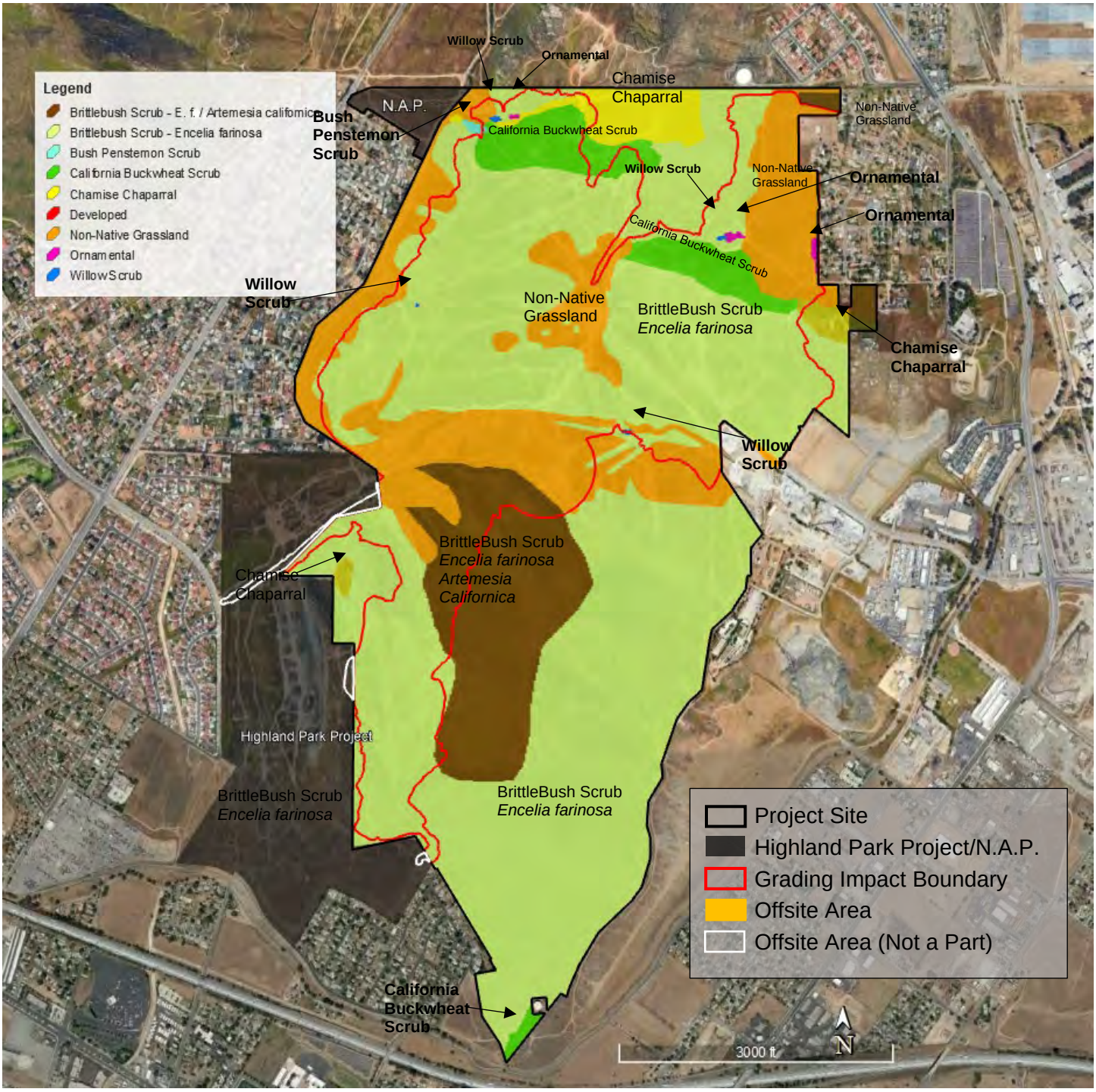
Minor discrepancies are due to rounding



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Engineering Design / Grading Impacts
Figure 17



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Vegetation Impacts
Figure 18

4.2) Botanical Species

This section describes the Project's expected direct and indirect impacts to listed and special status plants. Recommended mitigation measures to avoid, minimize, or compensate for those impacts are included in Section 6.0.

Impact: Development of the Rio Vista Project could result in loss of habitat for listed and special status plants and loss of individuals or populations.

The site was evaluated for potential presence or absence of suitable habitat to support state or federally listed botanical resources. These species were not observed during surveys and following focused surveys were determined to have low or absent potential to occur in the survey area, based on lack of suitable habitat and survey results.

No other state or federally listed plant species were observed on the Project site during surveys and none have a moderate or high potential to occur. There are no CNDDB recorded occurrences of listed plant species nor is there any designated or proposed critical habitat. No impacts are expected to listed plant species as a result of this proposed Project.

One special status plant species, Plummer's mariposa lily, was observed on the Project site. This species is covered under the MSHCP and considered Adequately Conserved and no mitigation is proposed. Two (2) special status plant species, Robinson's pepper-grass and mesa horkelia, have potentially suitable habitat in the survey area and moderate potential to occur. These species are not covered under the MSHCP.

Robinson's pepper-grass has a California Rare Plant Rank (CRPR) of 4.3 (watch list). CNDDB records of this species are present throughout the coastal and inland valleys and foothills of southern California. Although some may have been lost due to development, numerous populations are located within MSHCP conserved lands and more within Criteria Cells. With the number and frequency of records within Riverside, San Diego, San Bernardino, and Los Angeles Counties, the known locations of this species within MSHCP conservation areas, and implementation of Project mitigation measures, impacts to Robinson's pepper-grass (if it occurs) would be considered adverse, but not significant.

Mesa horkelia has a CRPR of 1B.1 (rare and endangered in California and throughout its range). The survey area appears to be near the southeastern edge of the geographic range of the species. The CNDDB identifies over 100 records of mesa horkelia within California, including numerous records in the lowlands and foothills of southwestern San Bernardino County and Los Angeles County. Although additional mesa horkelia records go as far south as San Diego County and as far east as Banning, there are limited records of this species in Riverside, San Diego, and Orange Counties. The majority of occurrences are west and northwest of the survey area in southwest San Bernardino, Los Angeles, Ventura, Santa Barbara, and San Luis Obispo Counties.

Based on the wide distribution and number of locations of this species, and implementation of Project mitigation measures, impacts to mesa horkelia (if it occurs) would be considered adverse, but not significant.

If Robinson's pepper-grass, mesa horkelia, or other special status plant species are present on the site, impacts would be avoided and minimized through implementation of Mitigation Measures BIO-2 (Conserve Open Space), BIO-11 (Biological Monitoring and Clearance Surveys) and BIO-4 (Special Status Plants), which requires avoidance or salvage or collection of propagules for use in the Project avoidance area or local restoration projects. With implementation of mitigation measures, impacts to special status plants would be less than significant.

The Palmer's oak tree located in the northeast quarter of the survey area will be avoided in accordance with Mitigation Measure BIO-3 (Palmer's Oak). Based on the current Project design, the Palmer's oak is 150 feet outside the Project disturbance area. Detailed location information is provided in Confidential Appendix D and will be shared as needed with construction staff, biological field crews, state, local, and federal agencies, and the future HOA to prevent any impacts during or after construction.

No MSHCP Narrow Endemic plants were observed in the survey area. Based on lack of habitat, poor habitat, geographic range, and/or results of multiple years of field surveys, these species were determined to be absent from the Project site. No impacts are expected to MSHCP Narrow Endemic plant species as a result of this proposed Project.

No special status plant species are known to occur within the avoided portions of the survey area or immediately adjacent to the survey area; however, if previously unknown special status botanical species were present, impacts could potentially occur as a result of chemical emissions, fugitive dust, human presence, and invasive species. Increases of chemical emissions and fugitive dust during clearing would be temporary. Release of chemical emissions from vehicles and machinery would increase during clearing; however, due to the size of the Project and open area, emissions should disperse. Impacts of chemical emissions after clearing are not expected to increase substantially over current levels.

Fugitive dust rates could increase during clearing as a result of vehicle and machinery use and exposure of soils. Mitigation Measures for reducing impacts include BIO-6 (SWPPP), incorporating standard BMPs that require limitation of fugitive dust rates in several ways, including use of water trucks where needed and where not limited by local water restrictions, and BIO-12 (Wildlife Hazards), which limits vehicle speeds on unpaved roads within the Project to 15 mph.

Propagules of invasive plant species could be spread or introduced into the area by vehicles or machinery. Mitigation Measure BIO-15 reduces the potential for spread of non-native species by utilizing certified weed-free products on the site, prohibiting the use of invasive plants in landscaping, washing heavy equipment prior to bringing it onsite, and limiting staging of equipment insofar as possible to areas not infested by invasive plants.

Human and pet encroachment will be reduced by Mitigation Measure BIO-17 (Urban/Wildlands Interface) requiring compliance with Urban and Wildlands Interface guidelines. Measures detailed in Section 7.4 (Urban/Wildlands Interface) include incorporation of rear yard fencing and/or steep inaccessible slopes between avoided areas and development in the Project design, as well as signage and homeowner education.

With incorporation of the Mitigation Measures outlined above, impacts on listed and special status plants will be less than significant.

4.3) Wildlife Species

This section describes the Project's expected direct and indirect impacts to listed and special status wildlife. Recommended mitigation measures to avoid, minimize, or compensate for those impacts are included in Section 6.0.

Impact: Development of the Rio Vista Project could cause loss of habitat for listed and special status wildlife and harm to individuals.

Listed Wildlife Species

Two (2) listed species were observed on the Project site: Delhi Sands flower-loving fly and coastal California gnatcatcher. Crotch bumble bee was also observed on the Project site and is currently (as of March 2023) a candidate for state listing as endangered.

Delhi Sands Flower-loving Fly: Delhi Sands flower-loving fly (DSF) was recorded on the Project site by AMEC in 2005 within an approximately 3.73-acre area on the western edge of the site. A two-year focused survey was conducted in 2015 and 2016 and surveys were negative both years. The site is not within a Criteria Cell or a Delhi Sands Conservation Area.

DSF is a covered species under the MSHCP and considered Adequately Conserved. The Project, as designed, impacts 24.3 percent of Delhi soils on the Project site (Figure 19). However, of the 3.73 acres of occupied DSF habitat mapped in 2005, 0.84 acres (22.5 percent) will be impacted by the Project.

Any avoided habitat will be deed restricted to prevent future impacts under Mitigation Measure BIO-2 (see Section 6.0). Based on the negative findings, Project mitigation measures, and species-specific conservation goals for DSF under the MSHCP, impacts are considered less than significant.

Table 8. Impacts to Delhi Soils by the Proposed Project

Total Present (acres)	Project Impacts (acres)	Percent Impacted (%)
All Delhi Soils		
19.97	4.86	24.3
Occupied DSF Habitat (2005)		
3.73	0.84	22.5

Coastal California gnatcatcher: Three coastal California gnatcatchers (CAGN) were incidentally observed on the Project site in 2017. These observations were likely dispersing juveniles. This species is considered a "Covered Species Adequately Conserved" in the MSHCP and the survey area is not in a Criteria Cell. Impacts to CAGN, if any, would be covered under the MSHCP and associated incidental take permits.

Project mitigation measures would further avoid and minimize impacts to CAGN through conservation of open space (BIO-2), nesting bird surveys and avoidance (BIO-9), and biological monitoring and clearance surveys (BIO-11).

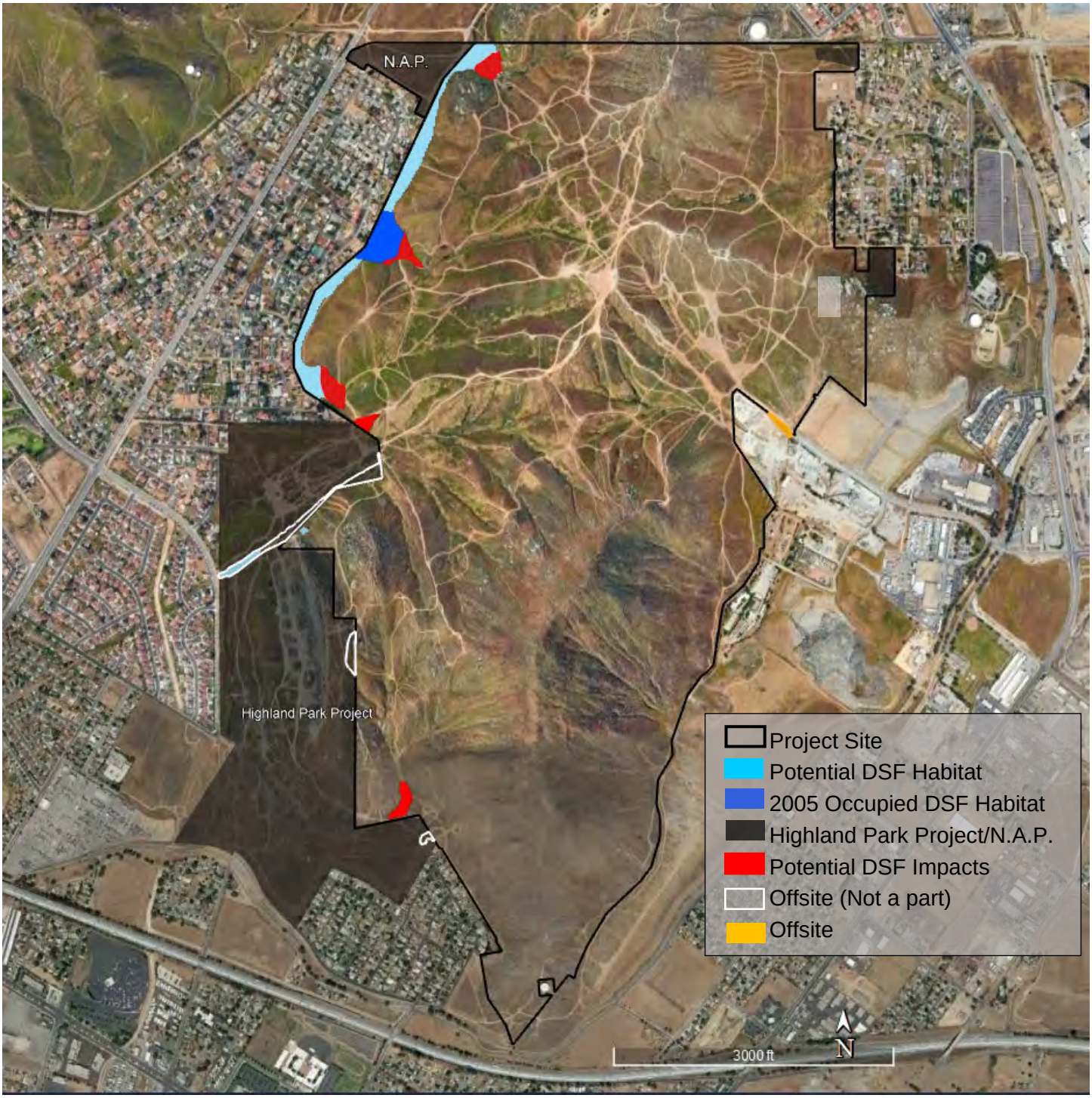
Considering the incidental take authorization provided by the MSHCP and the Mitigation Measures outlined, impacts to CAGN would be less than significant.

Crotch bumble bee: Crotch bumble bee is a candidate for state listing as endangered (as of March 2023). Suitable habitat for the species occurs in sage scrub and coastal sage-chaparral scrub within the survey area and it was recorded as observed in the survey area during the 2005 DSF focused survey (AMEC 2005b).

This species occurs in open grassland and scrub habitats and is found across California, from the northern border south to Mexico. Large areas of potentially suitable habitat for this species are present in the Project vicinity in and around the Jurupa Mountains and the Santa Ana River. With implementation of Mitigation Measure BIO-2 (Conserve Open Space), approximately 366 acres of sage scrub and about 38 acres of non-native grasslands that are potentially suitable habitat for this species will be avoided and conserved on the Project site.

Crotch bumble bee is not a covered species under the MSHCP. Impacts require incidental take permitting and associated mitigation. Mitigation Measure BIO-14 (Crotch Bumble Bee) requires the Project proponent to coordinate with CDFW to determine if an incidental take permit is required for Crotch bumble bee. If a permit is required, it will be obtained prior to the start of construction.

With implementation of Mitigation Measure BIO-14 and BIO-2 (Conserve Open Space), and any additional mitigation required under the incidental take permit (if any), impacts to Crotch bumble bee would be less than significant.



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Delhi Sands Flower-Loving Fly Habitat Impacts Figure 19

Special Status Species

Of the special status species observed or that have high or moderate potential to occur in the survey area, the MSHCP considers most "Covered Species Adequately Conserved." Potential direct and indirect impacts to these species include loss or degradation of habitat and harm to individuals or populations. The MSHCP provides take authorization for covered species and no mitigation is proposed.

Those species with suitable habitat and potential for impacts that are not covered by the MSHCP include great egret, Lawrence's goldfinch, wrentit, Allen's hummingbird, Brewer's sparrow, black-chinned sparrow, Costa's hummingbird, southern California legless lizard, California glossy snake, San Bernardino ringneck snake, coast patch-nosed snake, pallid bat, western mastiff bat, and pocketed free-tailed bat. Potential direct and indirect impacts to these species include loss or degradation of habitat and harm to individuals or populations.

Great egret: The great egret is a CDFW Special Animal. There is no suitable nesting habitat on the site and no marginal foraging habitat. The species was detected during surveys, but it is unknown if it was foraging on the site or just flying over. Adult birds will typically avoid disturbance and impacts to individuals are not expected. The proposed Project may result in loss of marginal foraging habitat on the site. Large tracts of suitable habitat for this species are present in the Project vicinity in and around the Santa Ana River. Loss of marginal foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be less than significant.

Lawrence's goldfinch: Lawrence's goldfinch is a CDFW Special Animal and a USFWS Bird of Conservation Concern. Although suitable nesting habitat does not occur on the site, this species was observed foraging. The proposed Project would result in loss of foraging habitat for this species. Large tracts of suitable foraging habitat for this species are present in the Project vicinity in and around the Jurupa Hills. Loss of foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be adverse but less than significant.

Wrentit: The wrentit is a USFWS Bird of Conservation Concern. Although this species was not observed during surveys, there is potentially suitable habitat on the site and it has a high potential to occur. The proposed Project would result in potential loss of nesting and foraging habitat for this species. Large tracts of suitable foraging habitat for this species are present in the Project vicinity in and around the Jurupa Hills. Loss of nesting and foraging habitat on the site would not

be expected to appreciably affect the overall population or range of the species and impacts would be potentially adverse but less than significant.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction. With implementation of this mitigation, impacts to nesting birds, including wrentit, would be less than significant.

Allen's hummingbird: Allen's hummingbird is a USFWS Bird of Conservation Concern. Although this species was not observed during surveys, there is potentially suitable habitat on the site and it has a moderate potential to occur. The proposed Project would result in potential loss of nesting and foraging habitat for this species and potential harm to nests, eggs, and chicks. Large tracts of suitable nesting and foraging habitat for this species are present in the Project vicinity in and around the Jurupa Hills. Loss of nesting and foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be potentially adverse but less than significant.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction. With implementation of this mitigation, impacts to nesting birds, including Allen's hummingbird, would be less than significant.

Brewer's sparrow: Brewer's sparrow is a CDFW Special Animal and a USFWS Bird of Conservation Concern. The species does not nest in the Project region and the site is outside of its winter range. The observation adjacent to the site may have been a migrating individual. The proposed Project may result in loss of potential foraging habitat for this species (during migration). Large tracts of potential foraging habitat are present in the Project vicinity in and around the Jurupa Hills. Loss of potential foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be less than significant.

Black-chinned sparrow: The black-chinned sparrow is a USFWS Bird of Conservation Concern. It is migratory and breeds in southern California. It was not observed during surveys but was identified on the adjacent Highland Park site. The proposed Project would result in loss of potential foraging and nesting habitat for this species and potential harm to nests, eggs, and chicks. Large tracts of suitable nesting and foraging habitat for this species are present in the

Project vicinity in and around the Jurupa Hills. Loss of nesting and foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be adverse but less than significant.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction. With implementation of this mitigation, impacts to nesting birds, including black-chinned sparrow, would be less than significant.

Costa's hummingbird: Costa's hummingbird is a CDFW Special Animal and a USFWS Bird of Conservation Concern. It is a year-round resident in southern California. There is suitable nesting and foraging habitat on the site and the species was observed during surveys. The proposed Project would result in loss of foraging and nesting habitat for this species and potential harm to nests, eggs, and chicks. Large tracts of suitable nesting and foraging habitat for this species are present in the Project vicinity in and around the Jurupa Hills and Santa Ana River, as well as suburban gardens. Loss of nesting and foraging habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be adverse but not significant.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction. With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided and minimized. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid and minimize impacts to any nesting birds that might be found during construction. With implementation of this mitigation, impacts to nesting birds, including Costa's hummingbird, would be less than significant.

Southern California legless lizard: The southern California legless lizard is a CDFW Species of Special Concern. This species is a limbless, burrowing lizard and is secretive and difficult to detect. Suitable habitat for the species occurs in the survey area and it has a moderate potential to occur. If present in construction areas, this species is unlikely to be detected by biological monitoring or clearance surveys and would be killed by heavy equipment or other disturbances. The proposed Project would result in loss of potential habitat for this species and potential mortality of individuals or populations. Large tracts of suitable habitat for this species are present in the Project vicinity in and around the Jurupa Hills.

This species is found from north of the Tehachapi Mountains south through coastal southern California to Mexico. This species inhabits a wide variety of scrub, chaparral, upland forest, and coastal dunes. The CNDDB has recorded 417 occurrences in southern California. Large tracts of suitable habitat for this species are present in the Project vicinity in and around the Jurupa Mountains. With the large geographic range and diverse recorded locations, loss of habitat on the site would not be expected to appreciably affect the overall population or range of the species and impacts would be adverse but less than significant.

Direct and indirect impacts to this species (if present) and its potential habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), BIO-15 (Invasive Plants), and BIO-17 (Urban/Wildlands Interface). With this mitigation, impacts would be considered adverse but less than significant.

California glossy snake: The California glossy snake is a CDFW Species of Special Concern. The species was not observed during surveys, but suitable habitat is present and it has a high potential to occur. If present in construction areas, this species may be detected by biological monitoring or clearance surveys but is more likely to hide in rocky areas or thick vegetation could be killed by heavy equipment or other disturbances. The proposed Project would result in loss of potential habitat for this species and potential mortality of individuals.

This species is spread across most of California from the San Francisco Bay Area south through the central valley and southern California into Baja California, Mexico. This species inhabits a wide variety of inland scrub, grasslands, and chaparral. The CNDDB has recorded 260 occurrences, the majority of which are in southern California. A single historic record from 1935 is near the southern end of the Project site. Large tracts of suitable habitat for this species are present in the Project vicinity in and around the Jurupa Mountains and the Santa Ana River. With

the wide geographic range and diverse recorded locations, impacts to this species are not expected to appreciably affect the overall population or range of the species.

Direct and indirect impacts to this species (if present) and its potential habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), BIO-15 (Invasive Plants), and BIO-17 (Urban/Wildlands Interface). With this mitigation, impacts would be considered adverse but less than significant.

San Bernardino ringneck snake: San Bernardino ringneck snake is a CDFW Special Animal. This species was not observed during surveys, but suitable habitat is present and it has a moderate potential to occur. If present in construction areas, this species may be detected by biological monitoring or clearance surveys but is more likely to hide in rocky areas or thick vegetation and could be killed by heavy equipment or other disturbances. The proposed Project would result in loss of potential habitat for this species and potential mortality of individuals.

This species ranges from west San Diego County through to Riverside, southwestern San Bernardino, Ventura, and Los Angeles counties, from the coast to the inland mountain ranges. This species utilizes a wide variety of habitats but prefers locations with moisture. With the geographic range and variety of habitats, impacts to this species are not expected to appreciably affect the overall population or range of the species. Large tracts of suitable habitat for this species will remain in the Project vicinity, particularly within and adjacent to the Santa Ana River. Project-related impacts to this species are not expected to appreciably affect the overall population or range of the species.

Direct and indirect impacts to this species (if present) and its potential habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), BIO-15 (Invasive Plants), and BIO-17 (Urban/Wildlands Interface). With this mitigation, impacts would be considered adverse but less than significant.

Coast patch-nosed snake: Coast patch-nosed snake is a CDFW Species of Special Concern. Suitable habitat is present on the Project site. The proposed Project would result in loss of habitat for this species and potential mortality of individuals.

This snake has a wide range from Santa Barbara County through southwestern California to Baja California, the coast inland to the coastal mountain ranges, and elevations from sea level to

around 7,000 feet. The species occupies a variety of scrub and chaparral habitats on plains, foothills, and hillsides. Although little is known about the abundance of this species, with the geographic range and habitats, impacts to this species are not expected to appreciably affect the overall population or range of the species. Large tracts of suitable habitat for this species will remain in the Project vicinity in and around the Jurupa Mountains and the Santa Ana River.

Direct and indirect impacts to this species and its habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), BIO-15 (Invasive Plants), and BIO-17 (Urban/Wildlands Interface). With this mitigation, impacts would be considered adverse but less than significant.

Pallid bat: Pallid bat is a CDFW Species of Special Concern. Suitable roosting habitat occurs in the rock outcrops on the site and suitable roosting and foraging habitat occurs on and adjacent to the survey area. This species has a moderate potential for occurrence. The proposed Project would result in loss of potential foraging and roosting habitat for this species and potential mortality of individuals.

This species occurs in much of California except the high mountains. The CNDDB has over 400 records of this species throughout California. Roosting and foraging locations are common in dry, open shrubland habitat, typically near water and below 6,000 feet in elevation. This species roosts in cliff faces and rock outcrops but can also be found in manmade structures or trees. With the geographic range and habitats, impacts to this species are not expected to appreciably affect the overall population or range of the species. Large tracts of suitable habitat for this species will remain in the Project vicinity in and around the Jurupa Mountains and the Santa Ana River.

Direct and indirect impacts to special status bats and their habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), and BIO-17 (Urban/Wildlands Interface).

Mitigation Measure BIO-13 (Bat Roosts) requires a qualified biologist to inspect potential roosts and implement avoidance measures. With this mitigation, impacts would be considered adverse but less than significant.

Western mastiff bat: Western mastiff bat is a CDFW Species of Special Concern. Suitable foraging habitat is present on and adjacent to the Project site. Suitable roosting habitat on the

site is limited to rock outcrops, although a steep cliff face is present just offsite to the west. This species has a moderate potential for occurrence. The proposed Project would result in loss of potential foraging and roosting habitat for this species and potential mortality of individuals.

This species inhabits a variety of habitats, including dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, montane meadows, and agricultural areas and occurs from San Francisco south into much of southern California. CNDDB records identify this species throughout southern and central California, with the greatest concentration in the coastal areas of southern California.

With the geographic range and habitats, impacts to this species are not expected to appreciably affect the overall population or range of the species. Large tracts of suitable habitat for this species will remain in the Project vicinity in and around the Jurupa Mountains and the Santa Ana River.

Direct and indirect impacts to special status bats and their habitat would be avoided and minimized with implementation of Mitigation Measures BIO-1 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), and BIO-17 (Urban/Wildlands Interface).

Mitigation Measure BIO-13 (Bat Roosts) requires a qualified biologist to inspect potential roosts and implement avoidance measures. With this mitigation, impacts would be considered adverse but less than significant.

Pocketed free-tailed bat: Pocketed free-tailed bat is a CDFW Species of Special Concern. Potentially suitable foraging habitat is present on and adjacent to the Project site. Suitable roosting habitat on the site is limited to rock outcrops, although a steep cliff face is present just offsite to the west. This species has a moderate potential for occurrence. The proposed Project would result in loss of potential foraging and roosting habitat for this species and potential mortality of individuals.

This species inhabits deserts and arid lowlands and prefers rocky desert areas with high cliffs or rock outcrops for roosting. In California, it is found in Riverside, San Diego, and Imperial Counties. CNDDB records identify this species mainly in southwestern California.

With the geographic range and habitats, impacts to this species are not expected to appreciably affect the overall population or range of the species. Large tracts of suitable habitat for this species will remain in the Project vicinity in and around the Jurupa Mountains.

Direct and indirect impacts to special status bats and their habitat would be avoided and minimized with implementation of Mitigation Measures BIO-2 (Conserve Open Space), BIO-6 (SWPPP), BIO-11 (Biological Monitoring and Clearance Surveys), BIO-12 (Wildlife Hazards), and BIO-17 (Urban/Wildlands Interface).

Mitigation Measure BIO-13 (Bat Roosts) requires a qualified biologist to inspect potential roosts and implement avoidance measures. With this mitigation, impacts would be considered adverse but less than significant.

Nesting Birds

Nesting birds are protected under the federal Migratory Bird Treaty Act and California Fish and Game Code. Adult birds will typically flee from disturbance, but if active nests are present in the impact area at the time of construction, there could be impacts to eggs, chicks, and/or dependent juveniles.

With the implementation of Mitigation Measure BIO-9 (Nesting Birds), impacts to nesting birds, eggs, or dependent juveniles will be avoided. In addition, biological monitoring and preconstruction clearance surveys (Mitigation Measure BIO-11) will avoid impacts to any nesting birds that might be found during construction.

About 477 acres of habitat would be permanently impacted by clearing. Loss of native habitat for nesting birds would be an adverse impact, but implementation of Mitigation Measure BIO-2 would avoid and conserve 426 acres of habitat for nesting birds on the Project site. BIO-17 would avoid and minimize edge effects that could impact the conserved habitat and reduce its value to nesting birds. Other native habitat for nesting birds is present in the Project vicinity in MSHCP Core A (Prado Basin and the Santa Ana River), Noncontiguous Habitat Block 2 (Jurupa Mountains), and Noncontiguous Habitat Block 3 (Delhi Soils Area).

With implementation of mitigation measures, impacts to nesting birds would be considered less than significant.

4.4) Jurisdictional Features

Impact: The Project could affect state or federal jurisdictional waters and MSHCP Riparian/Riverine habitat.

Based on a 2018 jurisdictional delineation, eleven (11) main jurisdictional features occur within the Project site, containing 19 tributaries, for a total of 30 Non-Relatively Permanent Water (Non-RPW) features (i.e., ephemeral carriers of periodic rainfall).

Based on the 2023 jurisdictional delineation, the proposed Project will impact 5.98 acres of California Department of Fish and Wildlife jurisdictional streambed and 0.88 acre of CDFW wetland over 27,637 linear feet, for a total of 6.86 acres of CDFW jurisdiction. The project will also impact 3.15 acres of waters of the state under Porter-Cologne. The delineation found that there are no federal waters or wetlands present on the site. The U.S. Army Corps of Engineers issued an Approved Jurisdictional Determination on February 11, 2021 stating that Waters of the U.S. do not occur on the Project site.

Impacts to individual features and feature details, including length, average width, and area of each drainage and tributary, are included in Tables 15 and 16 (Appendix B).

No aquatic or vernal pool habitats were observed within the Project site.

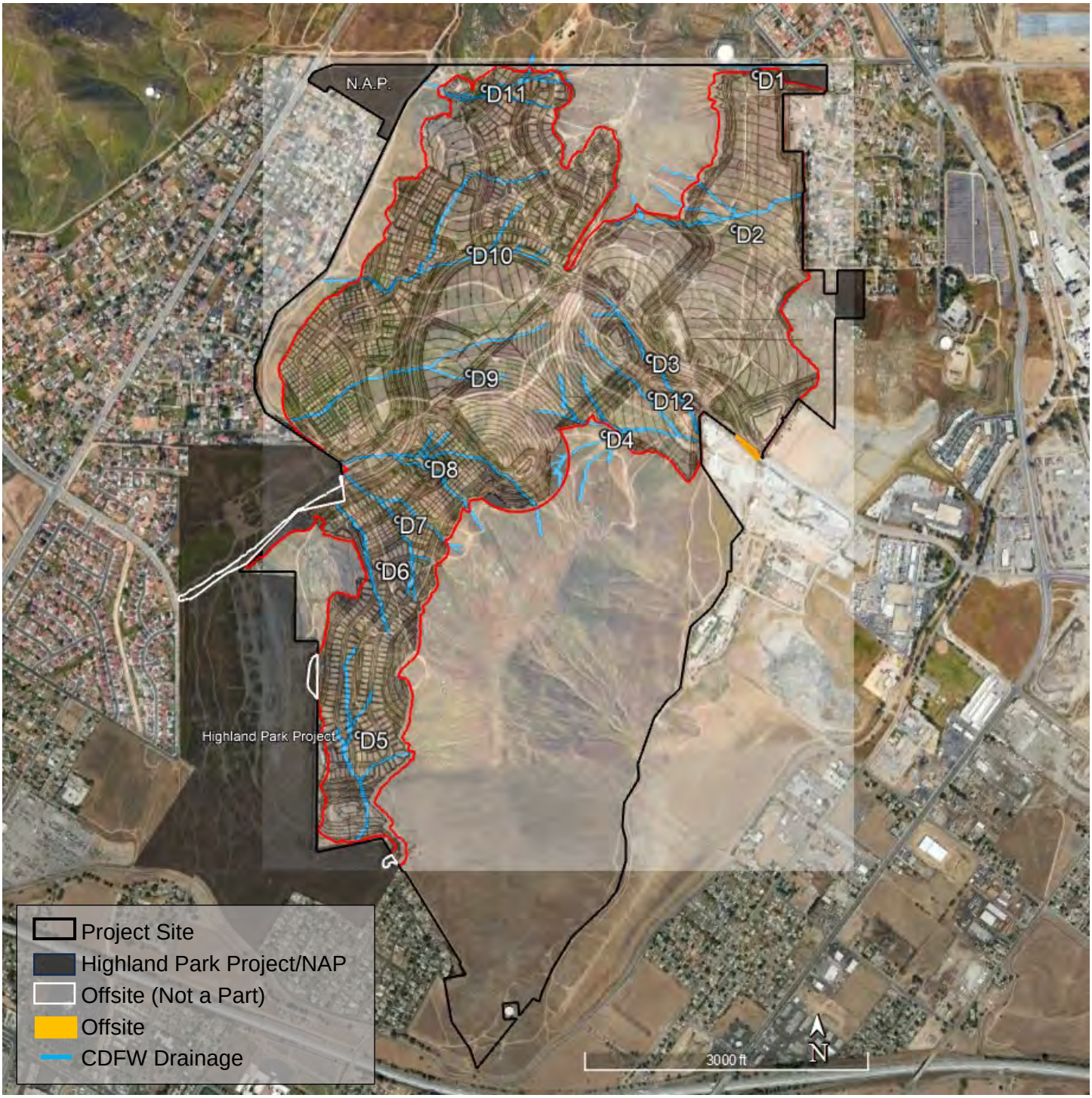
Included in the vegetation impacts are 6.86 acres of MSHCP Riparian/Riverine areas, consisting of 5.98 acres of Riverine areas and 0.88 acre of Riparian willow scrub and ornamental/Peruvian pepper tree vegetation (where it falls within a drainage feature) (based on 2018 jurisdictional delineation).

The proposed Project will not avoid jurisdictional drainages and all of the draianges will be impacted by the project design. There is no federal jurisdiction.

Mitigation Measures BIO-5 (MSHCP Riparian/Riverine Habitat), BIO-7 (USACE/RWQCB Jurisdictional Areas), and BIO-8 (CDFW Jurisdictional Areas) would require mitigation for impacts at no less than a 2:1 ratio. Mitigation Measures BIO-2 (Conserve Open Space) would also conserve jurisdictional resources within avoided areas on the Project site.

Impacts from earthmoving or other construction activities in or adjacent to drainages or sheet-flow areas could result in discharge of toxic materials, silt, debris, or excessive erosion into jurisdictional waters and wetlands during Project construction. Use of BMPs (Mitigation Measure

BIO-6 [SWPPP]) are incorporated to avoid and minimize impacts to drainage features and downstream areas. With the implementation of Project Mitigation Measures, as well as any additional measures required by regulatory permits, impacts would be less than significant.



Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

CDFW Jurisdiction With Dev. Plan
Figure 20

4.5) Wildlife Corridors

Impact: The functions and values of wildlife corridors could be affected by development of the Rio Vista Project.

The Rio Vista Project site is a large tract of land surrounded by developed lands, except for a small area of undeveloped land adjacent to the north and northwest (which connects to the Jurupa Hills). Wildlife currently move freely throughout the proposed Project and surrounding undeveloped areas. Upon build-out of the Project, wildlife species are anticipated to continue to use habitat within the avoided and conserved portions of the survey area along with undeveloped areas adjacent to the Project site to the north and northwest.

The survey area does not function as a wildlife corridor and there are no adjacent wildlife corridors; therefore, no impacts to wildlife corridors are expected to occur as a result of Project implementation and no mitigation is proposed.

For movement within the survey area and open space immediately surrounding it, the proposed Project will reduce the overall area of available habitat and may increase competition for resources and leave displaced individuals vulnerable to predation. Those species that may use the Project site for foraging will have access to habitat in the avoided and conserved areas, and mobile species may also utilize adjacent undeveloped habitat and large expanses of relatively undisturbed habitat within the Jurupa Area Plan and the Santa Ana River area. Habitat in the conserved areas on the site will be largely fragmented and isolated.

Increased human presence, noise, lighting, and predation from domestic pets may hinder localized wildlife movement and behaviors within open space and adjacent habitat. Species that remain will likely be those that are more tolerant of human presence.

Management of “edge effects” under Urban/Wildland Interface Guidelines (Section 7.4) will reduce and minimize indirect impacts to wildlife species to the extent possible as required under the MSHCP.

5.0) CUMULATIVE IMPACTS

Cumulative impacts to biological resources on lands targeted for development within Western Riverside County are evaluated within the MSHCP.

5.1) Western Riverside County MSHCP

The Project site occurs within the boundaries of the MSHCP. The MSHCP is a regional Habitat Conservation Plan intended to enhance and maintain biological and ecological diversity while allowing for development and economic growth within the county. By addressing environmental resources on a regional scale rather than individually, the MSHCP is able to preserve large areas of native habitat, corridors between habitats, and areas of unique habitat while streamlining the regulatory process.

> "The MSHCP plan area encompasses approximately 1.26 million acres (1,966 square miles); it includes all unincorporated Riverside County land west of the crest of the San Jacinto Mountains to the Orange County line, as well as the jurisdictional areas of the cities of Temecula, Murrieta, Lake Elsinore, Canyon Lake, Norco, Corona, Riverside, Moreno Valley, Banning, Beaumont, Calimesa, Perris, Hemet and San Jacinto. The MSHCP will be used to allow the participating jurisdictions to authorize 'Take' of plant and wildlife species identified within the Plan Area… in exchange for the assembly and management of a coordinated MSHCP Conservation Area."

The MSHCP is a habitat-based approach to the protection of covered species that focuses on conservation and management of lands essential for their long-term conservation. During development, the MSHCP considered projects that were already planned and other reasonably foreseeable projects to determine the minimization and mitigation levels required and additional survey needs. The MSHCP provides a process to mitigate regional cumulative impacts to covered species and their habitats. Project consistency with Section 7.0 (Implementation Structure) of the MSHCP ensures cumulative impacts to covered species are mitigated.

5.2) Cumulative Impacts to Resources

The proposed Project will contribute to regional cumulative impacts to native vegetation, habitat for special status plant and wildlife species, nesting bird habitat, foraging habitat, MSHCP Riparian/Riverine habitat, jurisdictional features, and potentially to special status plant and wildlife species. However, with the Project's participation in the MSHCP, the Project's location outside of Conservation Areas and Criteria Areas, and with implementation of mitigation measures, Project-related impacts would not be cumulatively considerable.

5.2.1) Vegetation Communities

The proposed Project would contribute to a cumulative decrease in the acreage of native vegetation communities in the region (Table 6) and would add to habitat fragmentation. In addition, the Project will contribute to a cumulative loss of Delhi soils (Table 8).

Impacts to additional habitat in the Project vicinity from other projects are likely in the future and would add to cumulative impacts; however, the Project's avoidance of most Delhi soils on the site and proximity to the Jurupa Hills and Santa Ana River Basin (MSHCP Core A) will ensure that some natural open space is maintained in the Project vicinity for native species, although it will be fragmented and isolated. Those areas of the Project site not impacted by the Project footprint, including Riparian/Riverine and Delhi sands, shall be deed restricted as open space.

Cumulative development in the greater region has been considered and impacts minimized and mitigated under the MSHCP. By meeting MSHCP requirements, the Project's contribution to regional impacts would not be considered cumulatively considerable. Future projects in the vicinity would also be subject to MSHCP requirements and mitigation.

5.2.2) Listed Species

Botanical Species

There are no direct or indirect impacts to state or federally listed botanical species or to designated or proposed critical habitat on the Project site. No suitable habitat for these species occurs within the proposed Project site and none were identified during multiple years of focused surveys. Implementation of this Project would not add considerably to any cumulative effects to listed plants.

Wildlife Species

The Project would impact 4.86 acres of the 19.97 acres of existing Delhi soils onsite equivalent to 24.3 percent of Delhi soils suitable to support Delhi Sands flower-loving fly. Of the 3.73 acres of occupied habitat mapped by AMEC in 2005, 0.84 acres (22.5 percent) would be impacted by the Project. The 2015/2016 two-year survey effort on the Project site was negative. While impacts to 24.3 percent of all Delhi soils habitat and 22.5 percent of the occupied habitat mapped in 2005 will add to cumulative impacts to potentially suitable soils for this species, by meeting the MSHCP requirements for occupied sites, the Project's contribution to regional impact would not be cumulatively considerable.

Suitable habitat for coastal California gnatcatcher occurs within the Project site and this species was observed onsite in 2017. However, the species has not been observed nesting in the survey area and only a few incidental observations of this species occurred over multiple years of biological surveys. Impacts to gnatcatcher, if they occur, will add to cumulative impacts to the species in the region, but because it is considered a "Covered Species Adequately Conserved" in the MSHCP and the Project is not in an MSHCP Conservation Area, the Project's contribution to the regional impact would not be cumulatively considerable.

Crotch bumble bee was identified on the site in 2005. Crotch bumble bee is currently (as of March 2023) a candidate for state listing. It is not a covered species under the MSHCP. Although not recently observed on the site, impacts require incidental take permitting and associated mitigation.

5.2.3) Special Status Species

Cumulative habitat loss in the area will affect special status species, as loss and degradation of habitat affect the distribution and abundance of species and can indirectly affect survival of remaining populations through fragmentation and isolation.

Impacts to special status species are likely in the future; however, the creation and implementation of the MSHCP, which focuses conservation in areas of sensitive communities or concentrations of special status species in proximity to large expanses of open lands or wildlife corridors, will ensure that extensive natural open space is maintained for special status species in western Riverside County. With the mitigation associated with the MSHCP and the implementation of recommended mitigation measures (see Section 6), Project-related impacts to MSHCP covered species are not expected to be cumulatively considerable.

Impacts to special status species not covered under the MSHCP may occur, but the impacts are difficult to quantify. These impacts will add to cumulative impacts to the species, but with implementation of recommended mitigation measures (see Section 6), Project-related impacts are not expected to substantially affect regional populations and would not be cumulatively considerable.

5.2.4) Nesting Birds

With implementation of Mitigation Measures BIO-9 (Nesting Birds), BIO-10 (Burrowing Owl), and BIO-11 (Biological Monitoring and Clearance Surveys), the proposed Project would not add considerably to cumulative effects to nesting birds. Nesting habitat will be preserved in the Project vicinity as a part of the MSHCP Noncontiguous Habitat Block 2 (Jurupa Mountains) and MSHCP

Conservation Area Core A (Santa Ana River North), as well as the avoided and conserved areas on the site.

5.2.5) Jurisdictional Features

Based on the 2023 jurisdictional delineation, the Project will impact 27,637 linear feet (6.86 acres) of CDFW jurisdictional areas, composed of 5.98 acres of CDFW streambed and 0.88 acre of CDFW wetlands. The delineation found that there are no federal waters or wetlands present on the site. The U.S. Army Corps of Engineers issued an Approved Jurisdictional Determination on February 11, 2021 stating that Waters of the U.S. do not occur on the Project site.

These totals would be added to cumulative impacts to jurisdictional features in the region. With implementation of Mitigation Measures BIO-2 (Conserve Open Space), BIO-6 (SWPPP), BIO-7 (USACE/RWQCB Jurisdictional Areas), and BIO-8 (CDFW Jurisdictional Areas), the Project's contribution to regional impacts would not be cumulatively considerable.

5.2.6) Riparian/Riverine Habitat

Based on the 2023 jurisdictional delineation, the Project will impact 5.98 acres of MSHCP Riverine habitat and 0.88 acre of MSHCP Riparian habitat. Impacts include unvegetated streambeds, willow scrub habitat, and non-native ornamentals.

These totals would add to cumulative impacts to MSHCP Riparian/Riverine habitat in the region. With implementation of Mitigation Measures BIO-2 (Conserve Open Space), BIO-5 (MSHCP Riparian/Riverine Habitat), and BIO-6 (SWPPP), the Project's contribution to regional impacts would not be cumulatively considerable.

5.2.7) Wildlife Corridors

As the Project site does not function as a wildlife corridor, implementation of this Project would not add to any cumulative effects.

6.0) MITIGATION MEASURES

The following measures are recommended to avoid, minimize, and compensate for Project-related impacts on biological resources.

MM BIO-1. Flag or Fence Impact Areas

The Project impact and avoidance areas shall be clearly flagged or fenced prior to clearing to prevent incursion into unsurveyed or avoided areas.

MM BIO-2. Conserve Open Space

Those areas of the Project site not impacted by the Project footprint, including Riparian/Riverine and Delhi sands, shall be designated as open space. The open space areas shall be deed restricted prior to issuance of a grading permit, and ownership will be transferred to the Regional Conservation Authority (RCA), City-approved local conservation entity, or the Homeowner's Association (HOA) at the time of the recordation of the final map. If transferred to the HOA, the HOA shall manage the open space areas according to the Covenants, Codes, and Restrictions, which shall restrict future impact and uses of open space areas.

MM BIO-3. Palmer's Oak

The Project shall avoid the Palmer's oak and a minimum of 150 feet beyond its mapped limits.

MM BIO-4. Special Status Plants

If special status plant species are observed on the site, impacts shall be avoided and minimized to the extent feasible. If mesa horkelia or Robinson's pepper-grass plants are observed within the development footprint, they shall be salvaged, or propagules shall be collected for use in the Project avoidance area or local restoration projects.

MM BIO-5. MSHCP Riparian/Riverine Habitat

Prior to issuance of a grading permit, the Project Applicant shall provide mitigation for the loss of MSHCP Riparian/Riverine areas at no less than a 2:1 basis, or as determined through consultation with the City of Jurupa Valley, Riverside County, and wildlife agencies based on a functions and values analysis. Equal or greater value mitigation shall be provided in the form of one or more of the following: offsite acquisition and preservation, participation in an approved mitigation bank, onsite creation, offsite creation and/or enhancement, or reestablishment. If offsite mitigation is incorporated, the preferred choice shall be to find mitigation within or adjacent to the Santa Ana Watershed and within Riverside County.

If onsite mitigation is proposed, a Habitat Mitigation and Monitoring Plan shall be developed and provided for review and approval by local and other regional regulatory agencies and shall include, but not be limited to, the following:

- Recommendations for soil preparation,
- A plant palette to include native species appropriate for the Project site,
- Planting methods,
- Irrigation and maintenance requirements,
- Quantitative success criteria (vegetation cover and species richness), and
- A long-term management plan.

MM BIO-6. SWPPP

Prior to initial ground disturbance, the Project Applicant shall prepare and implement a Stormwater Pollution Prevention Plan (SWPPP), employing standard best management practices (BMPs), to prevent discharges from entering jurisdictional waters and/or wetlands during construction. BMPs shall include, but not be limited to:

- Use of erosion control or sedimentation prevention methods, such as fiber rolls, sand or gravel bags, rice mats, straw wattles, or similar measures, where appropriate.
- Proper use and disposal of oil, gasoline, diesel fuel, antifreeze, and other toxic substances.

MM BIO-7. RWQCB Jurisdictional Areas

Prior to the issuance of a grading permit, the proponent shall consult with the Regional Water Quality Control Board to determine the need and if necessary, obtain a Waste Discharge Requirement (WDR) permit under the Porter-Cologne Water Quality Control Act.

MM BIO-8. CDFW Jurisdictional Areas

Prior to the issuance of a grading permit, the Project Applicant shall enter into an agreement with the California Department of Fish and Wildlife (via issuance and implementation of a Streambed Alteration Agreement, Section 1600) to replace CDFW jurisdictional streambeds and wetlands impacted by the Project as specified by the California Department of Fish and Wildlife, through a combination of offsite acquisition and preservation, participation in an approved mitigation bank, and/or onsite or offsite creation, enhancement, or reestablishment of streambed. The exact ratio shall be based on a functions and values assessment.

MM BIO-9. Nesting Birds

To prevent impacts to nesting birds (including raptors), clearing or other work in native habitats should be avoided during the nesting season (January 1 through September 15). If work cannot be avoided during this timeframe, a nesting bird survey shall be conducted by a qualified biologist within three (3) days prior to initial clearing and/or grading. If nesting birds are present, a nesting bird plan shall be developed and implemented to include appropriate measures mitigating potential impacts, including maintenance of a buffer area while the nest is active.

Active bird nests should be mapped utilizing a hand-held global positioning system (GPS), getting as close as possible without disturbing the nest, and a buffer will be flagged around the nest (300 feet for most species, 500 feet for raptor nests, or as determined by the biologist). Construction will not be permitted within buffer areas while the nest continues to be active. Once fledging has occurred or the nest otherwise becomes inactive, no further avoidance is required. An active nest is defined as a nest that is being built or in use as part of the reproductive process, including a nest with eggs, chicks, or dependent juveniles.

MM BIO-10. Burrowing Owl

Within one year prior to the start of construction, an updated breeding season protocol survey for burrowing owl shall be conducted within all suitable burrowing owl habitat on the site and a 150-meter buffer. A pre-construction burrowing owl clearance survey shall be conducted no more than 30 days before ground or vegetation disturbance. The surveys shall be conducted as close to the actual construction initiation date as possible. If present, the Project biologist will consult with local and state agencies, as appropriate, and develop a mitigation plan. The mitigation plan will be implemented prior to any construction activities that may disturb burrowing owls. Mitigation will be based on the following goals and requirements in the MSHCP:

> If the site contains or is part of an area supporting less than 35 acres of suitable habitat or the survey reveals that the site and the surrounding area supports fewer than three (3) pairs of burrowing owls, onsite burrowing owls will be passively or actively relocated following accepted protocols.
>
> Occupied nests will be avoided during the nesting season (February 1-August 31) along with a buffer of 300 – 500 feet depending on the level of disturbance surrounding the burrow.
>
> Burrow exclusion will be utilized outside of the nesting season by installing a one-way door in burrow openings. Burrows will be closed following verification they are empty through site monitoring and scoping.
>
> If the site (including adjacent areas) supports three (3) or more pairs of burrowing owls, supports greater than 35 acres of suitable habitat, and is non-contiguous with MSHCP Conservation Area lands, at least 90 percent of the area with long-term conservation value and burrowing owl pairs will be conserved onsite.

MM BIO-11. Biological Monitoring and Clearance Surveys

One or more qualified biological monitors shall be assigned to the Project to monitor construction activities. Monitors shall be responsible for ensuring that impacts to special status species, native vegetation, wildlife habitat, jurisdictional waters, and sensitive or unique biological resources are avoided to the extent possible. Monitors shall also conduct Workers Environmental Awareness Program (WEAP) training to inform construction personnel of applicable mitigation measures and permit conditions, and any potential for infraction.

A biological monitor shall be present during initial site clearing activities (vegetation clearing, soil preparation, and ground disturbance), during work adjacent to avoided Delhi soils and jurisdictional waters and MSHCP Riparian/Riverine habitat, and at appropriate intervals throughout construction to ensure compliance with mitigation measures and regulatory permit conditions.

In addition, a qualified biologist shall conduct clearance surveys for special status plant or wildlife resources within or adjacent to the Project disturbance area within three (3) calendar days prior to initial vegetation clearing and ground disturbance, including fence installation.

If any special status plants or wildlife are found, the biologist shall take appropriate action as defined in the MSHCP, mitigation measures, permit conditions, and regulations. Federal, state, and local agencies will be consulted as needed and appropriate. If needed, an avoidance buffer will be established to protect the resource until this action has been completed.

Monitoring and survey activities will be documented and, at the conclusion of Project construction activities, all monitoring reports and communications will be retained in Project files to allow review by the lead agency and wildlife agencies, if requested.

MM BIO-12. Wildlife Hazards

All potential wildlife pitfalls (trenches, bores, and other excavations) shall be backfilled or securely covered at the end of each workday. If backfilling or covering is not feasible, wildlife escape ramps shall be installed, in consultation with the biological monitor, sufficient to allow trapped wildlife to escape. Project workers or the biological monitor will inspect all excavations for trapped wildlife daily.

All debris piles, construction pipes, culverts, or other such materials shall be securely covered or capped while stored on the Project site to prevent wildlife access. All such materials shall be inspected for wildlife before being moved, buried, or capped.

If wildlife becomes trapped, the biological monitor shall remove the animal (if feasible and safe to do so) and place it in nearby suitable habitat outside of the impact area. If the biological monitor

is unable to remove the animal, CDFW or other wildlife authority will be immediately contacted for guidance and/or assistance. Any wildlife encountered on the Project site shall be allowed to leave the area unharmed or moved or encouraged to move out of harm's way by the biological monitor, if safe, feasible, and permitted to do so.

Vehicles traveling on unpaved roads within the Project site shall be limited to 15 miles per hour (mph). Construction work shall be limited to daylight hours.

If water is applied to the site to control dust, ponding of this water shall be minimized to avoid creating predator subsidies.

MM BIO-13. Bat Roosts

Potential roosts for special status bats (e.g., caves, crevices, mines, hollow trees, palm trees, rock outcrops, buildings, etc.) shall be inspected by a qualified biologist within seven (7) days prior to initial ground or vegetation disturbance. If special status bats are roosting or hibernating, an avoidance buffer shall be implemented while bats are present and a bat exclusion plan shall be prepared and submitted to the City of Jurupa Valley and CDFW for review prior to impacts. If a maternity roost is discovered during the breeding season (March through October), the biologist shall determine appropriate avoidance measures, including, but not limited to sound walls, buffers, and Project phasing/timing to avoid and minimize disturbance to the roost until all young are weaned and capable of foraging independently.

MM BIO-14. Crotch Bumble Bee

The Project proponent shall coordinate with CDFW to determine if focused surveys and/or an incidental take permit is required for the Crotch bumble bee. If focused surveys are required, they shall be conducted during the appropriate season within all suitable habitat on the site. If a permit is required, it will be obtained prior to the start of construction.

MM BIO-15. Invasive Plants

To prevent the spread of invasive plants, all heavy equipment used onsite shall be washed, particularly the wheels, undercarriage, outriggers, and other parts that come in contact with soil and vegetation, prior to bringing it onto the Project site from other construction sites. Care shall be taken to remove soil and debris that may contain seeds or propagules of invasive plants.

Any straw, mulch, or similar products used on the Project site shall be certified weed-free. Any erosion control planting or seeding shall consist of native species, native seed mix, or other ecologically appropriate, non-invasive plants.

Insofar as possible, staging areas shall be placed in areas that have been previously disturbed or have degraded habitat within the Project footprint, but that do not show an infestation of non-native species. Staging areas will be maintained free of invasive species.

Invasive plant species shall not be installed in landscaping. Design guidelines for the proposed Project shall provide the homeowners with a list of native landscaping materials recommended for use within the development area. These materials shall be selected for their compatibility with the unique natural environment in the area. None of the plants listed in the California Invasive Plant Council Inventory (cal-ipc.org) or Section 6.1.4 of the MSHCP will be utilized in the development design/landscape plans and their use by future homeowners will be discourage to the extent possible. The MSHCP has identified invasive plants that should be eliminated from open space areas. This list is included in Table 6-2 of the MSHCP and reproduced as Table 13 in Appendix A of this document. To ensure that invasive plants are not used in landscaping within the Project site, the Project proponent shall include a list of plant species to avoid within the Covenants, Conditions, and Restrictions (CC&Rs) for the development.

MM BIO-16. Trash

All refuse created or brought onsite by Project personnel or contractors, particularly food trash and food wrappers, shall be placed in covered animal-proof containers, removed from the site regularly, and disposed of properly.

MM BIO-17. Urban/Wildlands Interface

The proposed Project will incorporate measures to meet MSHCP Urban/Wildlands Interface guidelines and requirements. These measures will address Drainage, Toxics, Lighting, Noise, Barriers, Access, Pets, and Grading/Land Development (see Section 7.4).

7.0) MSHCP CONSISTENCY ANALYSIS

7.1) Conservation Areas/Reserve Assembly

This section of the report analyzes the proposed Project's relationship to Cores and Linkages and MSHCP Cell Criteria. The overall goal of this section is to determine if the proposed Project is consistent with Reserve Assembly objectives of the MSHCP.

Cores and Linkages: The Project is not located within an MSHCP designated Core or Linkage and will not impact overall Reserve Assembly goals. The Project is in the Jurupa Area Plan between (but not contiguous with) Noncontiguous Habitat Block (Subunit) 2: Jurupa Mountains, a portion of Subunit 3: Delhi Soils area, and the Santa Ana River North: Core A. The Project will not affect either subunit or the Core area.

Cell Criteria: The Project site is not located within any Criteria Cells.

The Project site is within the Jurupa Area Plan but does not fall within a designated Cell. Preservation of the affected acreage would not contribute to conservation, habitat, or species protection objectives of the MSHCP. Development of the property for other appropriate uses will not impact overall Reserve Assembly goals.

Biological Objectives, Jurupa Area Plan: Species surveys for burrowing owl and three (3) Narrow Endemic plant species (San Diego ambrosia, Brand's phacelia, and San Miguel savory) are required if appropriate habitat is present. None of the identified plant species have been located as part of the habitat assessment and botanical survey for this Project. The Narrow Endemic plant species are not expected to occur onsite due to a lack of suitable habitat.

Species-specific Conservation Objectives: Suitable soils for Delhi Sands flower-loving fly (DSF) occur within the survey area and DSF was recorded just north of the survey area and within the survey area in 2005 (AMEC 2005b). Delhi Sands habitat in the survey area has been heavily impacted by off-road vehicles, homeless encampments, etc. over the past 10 years. The 2015 and 2016 DSF surveys were negative.

Approximately 19.97 acres of Delhi soils were identified and mapped on the Project site. Although survey results for DSF are negative, the Project was designed to minimize impacts to Delhi soils. The proposed Project will impact a total of 4.86 acres of suitable DSF habitat, representing 24.3 percent of the suitable habitat. This is within the MSHCP species-specific conservation objective limiting impacts to Delhi soils to 25 percent or less for occupied sites.

7.2) Impacts to Riparian/Riverine or Vernal Pools (MSHCP Section 6.1.2)

Streambed/wetland delineation studies of the Project site updated in 2023 identified 5.98 acres of MSHCP Riverine and 0.88 acre of MSHCP Riparian habitat (willow scrub and Peruvian pepper tree ornamental) on the site. All of the features identified as MSHCP Riparian/Riverine were also considered a part of CDFW jurisdictional area and waters of the state under Porter-Cologne. No vernal pool habitat was identified in the survey area.

MSHCP Section 6.1.2 impacts identified in 2018 include 5.98 acres of Riverine area and 0.88 acre of Riparian area on the Project site.

Onsite and/or offsite mitigation will be provided for impacts to MSHCP Riparian/Riverine habitat.

7.3) MSHCP Habitat Assessment Requirements

MSHCP Additional Needs Species and Narrow Endemic plant species that required habitat assessments include burrowing owl, San Diego ambrosia, Brand's phacelia, and San Miguel savory.

7.3.1) Burrowing Owl

A habitat assessment for burrowing owl determined that the species could occur in low-lying disturbed and undisturbed brittle bush scrub and non-native grasslands on the Project site. A focused burrowing owl survey was conducted in May and June of 2014, April through June of 2016, and April through June of 2018. No burrowing owl or burrowing owl sign were observed in the survey area or buffer zone.

7.3.2) Narrow Endemic Plants

A habitat assessment and focused survey was conducted for San Diego ambrosia, Brand's phacelia, and San Miguel savory on the Project site.

No suitable habitat for San Diego ambrosia was observed in the survey area and the site is likely on the margin of its geographic range. The species was not observed during multiple years of surveys.

Potentially suitable habitat for Brand’s phacelia occurs in the survey area, but it is regularly impacted and heavily disturbed by off-road vehicle use. The habitat is considered poor and the species was not observed during multiple years of surveys.

Potentially suitable habitat for San Miguel savory occurs in the survey area, but the survey area is to the north of the known range of the species. The species was not observed during multiple years of surveys.

Based on results of the habitat assessment and focused surveys, San Diego ambrosia, Brand's phacelia, and San Miguel savory are considered absent from the site.

7.3.3) Delhi Sands Flower-loving Fly

DSF were found on the site in 2005 and the occupied habitat was mapped as 3.73 acres (AMEC 2005). A two-year focused survey was conducted on the Project site in 2015 and 2016 by L&L, but no DSF were observed in the survey area.

MSHCP Conservation Objective 1B limits impacts to 25 percent of the Delhi soils onsite if the site is determined to be occupied by DSF. The proposed Project will impact a total of 4.86 acres of suitable DSF habitat, representing 24.3 percent of the suitable habitat on the site and 22.5 percent of the 2005 mapped occupied habitat.

7.4) Urban/Wildlands Interface

Section 6.1.4 of the MSHCP presents guidelines to minimize “edge effects” or indirect effects of projects adjacent to MSCHP Conservation Areas that might adversely affect biological resources within the MSHCP Conservation Area. The proposed Project lies between two Noncontiguous Habitat Blocks (2 – Jurupa Mountains and 3 - Delhi Soils Area). The survey area does not adjoin any Criteria Cells and is separated from any Conservation Areas by mostly residential and industrial development. Based on the distance and existing development between the Project site and Criteria Cells, indirect impacts to Criteria Cells would not occur; however, indirect impacts may occur to habitat within the survey area that is avoided by Project development, including habitat for Delhi Sands flower-loving fly.

Indirect impacts that result from development, including lighting, urban runoff, toxics, and domestic predators, will be minimized in the Project design. This section is intended to identify actions that will minimize adverse effects to Delhi Sands and avoided open space areas.

7.4.1) Drainage

The Project incorporates streets, open channels, and natural drainage courses, as well as a comprehensive system of underground storm drains, to handle storm runoff from the Project site.

Storm water from the Project site will be directed to storm drains. The design and operation of the drainage channels shall be adequate to preclude discharge of water into open space areas that are of lower quality or higher quantity than current conditions.

The proposed development shall incorporate measures, including measures required through the National Pollutant Discharge Elimination System (NPDES) requirements, to ensure that the quantity and quality of runoff discharged to open space area is not altered in an adverse way when compared with existing conditions. Measures shall be put in place to avoid discharge of untreated surface runoff from developed and paved areas into open space areas. Storm water systems shall be designed to prevent the release of toxins, chemicals, petroleum products, invasive plant materials, or other elements that might degrade or harm biological resources or ecosystem processes within open space areas. This will be accomplished using a variety of methods, including natural detention basins, grass swales, or mechanical trapping devices. Regular maintenance shall occur to ensure effective operations of runoff control systems.

7.4.2) Toxics

The proposed Project is designed to utilize natural drainage patterns for the flow of surface water. Water quality Best Management Practices (BMPs) include education, storm drain stenciling, and street sweeping in compliance with City of Jurupa Valley requirements. These BMPs will be implemented as part of the storm water pollution prevention measures for the Project, in accordance with all appropriate NPDES requirements.

The Project would result in additional use of hazardous materials in limited quantities associated with normal residential use, such as cleaning products, solvents, herbicides, and insecticides. However, compliance with regulations will reduce potential risk of hazardous material exposure to a level that is less than significant. An information pamphlet will be prepared for each homeowner and will prescribe avoiding discharge of toxins to downstream waters.

7.4.3) Lighting

Outdoor lighting of residences will be designed so that all direct beams would be confined to dwelling sites. Project lighting will not intrude into avoided or adjacent open space areas. Street lighting, parking lot lighting, and other Project-related illumination sources will be positioned, directed, and shielded to avoid "light spill" into conserved areas. The level of onsite lighting and lighting fixtures will comply with applicable requirements and policies of the City of Jurupa Valley.

7.4.4) Noise

The proposed Project incorporates landscape elements, including trees, shrubs, and groundcover, which will assist in noise reduction in native habitats adjacent to the Project. Noise levels created on the Project site following development are not expected to exceed residential noise standards.

7.4.5) Barriers

The proposed Project would include theme walls along Project perimeter streets adjacent to public streets. The Project will include walls and fencing located where public view and/or important interfaces are of concern. The Project will incorporate special edge treatments designed to separate development areas from open space areas. These areas of native landscaping and fencing will serve to minimize unauthorized public access, domestic animal predation, and illegal trespass and dumping. Access restrictions will be placed at key access points where development abuts avoided and adjacent open space areas. The exclusion fence will be a minimum of five feet in height and will be installed and maintained for the purpose of controlling human and domestic animal access into open space areas. Fencing will adhere to MSHCP requirements, will be permanent, and will be maintained in perpetuity. Approval of the fencing design will be required by the City of Jurupa Valley prior to Project initiation.

7.4.6) Invasive Vegetation Control

Design guidelines for the Project will provide the homeowners with a list of allowed native landscaping materials. These materials have been selected for their contribution to the Project theme, adaptability to local climatic and soil conditions, and for their compatibility with the unique natural environment in the Project vicinity. None of the plants listed in Section 6.1.4 of the MSHCP will be utilized on the Project adjacent to open space areas. This list is included in Table 6-2 of the MSHCP (see Table 13 in Appendix A).

7.4.7) Access

Access points between native habitats and the Project development will be posted with signage asking residents to stay on trails and avoid disturbing habitat. Yard fencing will not have a back gate to reduce access to native habitats adjacent to the Project. Many of the existing informal trails in open space areas would remain for use by residents and the public, but no new trails into the open space would be created.

7.4.8) Pets

Uncontrolled pets and feral dogs and cats can prey on native wildlife species. Appropriate signage will be posted requesting that residents leash their pets. Educational pamphlets will be provided to inform homeowners of the potential impacts of uncontrolled pets on native wildlife and request that residents prevent their pets from hunting in the avoidance area.

7.4.9) Grading/Land Development

All manufactured slopes associated with site development will be within the Rio Vista Project footprint and there will be no grading in the avoided areas. All manufactured slopes that abut natural open space will be retained as open space buffer zones. All manufactured slopes and areas disturbed by construction of these slopes will be revegetated with buffer species during Project construction.

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APPENDIX A: Plant and Wildlife Species

Table 9. List of plant species identified on the Rio Vista site in 2006, 2014, 2015, 2016, 2017, and/or 2018 (N=196 species). One asterisk (*) indicates a non-native species; two asterisks (**) indicates a special status species. Not all plant species that may occur on the site were documented due to season and/or environmental conditions.

Scientific Name	Common Name	Year
Lycophytes		
Selaginellaceae	**Spike Moss Family**	
Selaginella species	Spike-moss	2006
Selaginella bigelovii	Bigelow spike-moss	2014/15/16/17/18
Ferns & Fern Allies		
Polypodiaceae	**Polypody Family**	
Polypodium californicum	California polypody	2017
Pteridaceae	**Brake Family**	
Myriopteris (Cheilanthes) newberryi	California cotton fern	2014/15/17
Pellaea mucronata var. *mucronata*	Bird's-foot fern	2006, 2014/15/16/17/18
Pellaea andromedifolia	Coffee fern	2006, 2017
Angiosperms / Flowering Plants		
Adoxaceae	**Adoxa Family**	
Sambucus nigra ssp. *caerulea* [*S. mexicana*]	Blue elderberry	2006, 2014/15/16/17
Amaranthaceae	**Pigweed Family**	
*Amaranthus albus**	Tumbling pigweed*	2006, 2014/15/16/17/18
Anacardiaceae	**Sumac Family**	
Malosma laurina	Laurel sumac	2017
Rhus aromatica [*R. trilobata*]	Skunk bush	2006, 2014/15/16/17/18
*Schinus molle**	Peruvian pepper tree*	2006, 2014/15/16/17/18
Toxicodendron diversilobum	Poison oak	2017
Apiaceae	**Carrot Family**	
Apiastrum angustifolium	Mock-parsley	2017
Bowlesia incana	American bowlesia	2017
Daucus pusillus	Rattlesnake weed	2017
Apocynaceae	**Dogbane Family**	
Funastrum cynanchoides var. *hartwegii*	Climbing milkweed	2014/15/17
Asteraceae	**Sunflower Family**	
Acourtia microcephala	Sacapellote	2017
Ambrosia acanthicarpa	Annual bur-sage	2006, 2014/15/16/17/18
Artemisia californica	California sagebrush	2006, 2014/15/16/17/18
Baccharis salicifolia	Mulefat	2006, 2014/15/16/17/18
Bebbia juncea var. *aspera*	Sweetbush	2014/15/17
Brickellia californica	California brickellbush	2014/15/16/18

Asteraceae (cont.)	**Sunflower Family**	
Brickellia desertorum	Desert brickellbush	2006, 2017
*Carduus pycnocephalus**	Italian thistle*	2017
*Centaurea melitensis**	Tocalote*	2006, 2014/15/16/17/18
Corethrogyne [*Lessingia*] *filagnifolia*	California-aster	2006, 2014/15/16/17/18
Encelia farinosa	Brittlebush	2006, 2014/15/16/17/18
Ericameria palmeri var. *pachylepis*	Grassland goldenbush	2017
*Erigeron (Conyza) bonariensis**	Flax-leaved horseweed*	2006, 2014/15/16/18
Erigeron (Conyza) canadensis	Horseweed	2006, 2014/15/16/17/18
Eriophyllum confertiflorum var. *confertiflorum*	Golden-yarrow	2006, 2014/15/16/17/18
*Gazania species**	Gazania*	2018
Gutierrezia californica	California matchweed	2014/15/17
*Hedypnois cretica**	Crete weed*	2017
Helianthus annuus	Annual sunflower	2006, 2014/15/16/17/18
Heterotheca grandiflora	Telegraph weed	2006, 2014/15/16/17/18
*Hypochaeris glabra**	Smooth cat's-ear*	2017
Isocoma menziesii var. vernonioides	Coastal goldenbush	2018
*Lactuca serriola**	Prickly lettuce*	2006, 2014/15/16/17/18
Logfia (*Filago*) species	Filago	2014/15/16/18
Logfia filaginoides (*Filago californica*)	California cottonrose	2006, 2014/15/17
Logfia (*Filago*) *gallica**	Narrow-leaved filago	2006, 2017
*Oncosiphon piluliferum**	Stink-net*	2017
Pseudognaphalium (*Gnaphalium*) *bioletti*	Bioletti's cudweed	2014/15/17
Pseudognaphalium (*Gnaphalium*) *californicum*	California everlasting	2014/15/17
Pseudognaphalium microcephalum	White everlasting	2006, 2014/15/16/17/18
Senecio flaccidus var. *douglasii*	Sand-wash butterweed	2017
*Senecio vulgaris**	Common groundsel*	2014/15/17
*Sonchus asper**	Prickly sow-thistle*	2014/15/16/18
*Sonchus oleraceus**	Sow-thistle*	2006, 2014/15/16/17/18
Stephanomeria exigua ssp. *deanei*	Dean's wreath-plant	2017
Stephanomeria virgata ssp. *virgata*	Virgate wreath-plant	2017
Tetradymia canescens (identification suspect)	Horsebrush	2006, 2014/15/16/18
Tetradymia comosa	Cottonthorn	2017
Uropappus lindleyi	Silver puffs	2014/15/17
*Verbesina enceliodes**	Crownbeard*	2017
Xanthium strumarium	Cocklebur	2017
Boraginaceae	**Borage Family**	
Amsinckia intermedia	Fiddleneck	2006, 2014/15/16/17/18
Amsinckia menziesii	Fiddleneck	2006
Cryptantha species	Unidentified forget-me-not	2014/15/16/18
Cryptantha barbigera	Cryptantha	2006, 2017
Emmenanthe penduliflora var. *penduliflora*	Whispering bells	2017
Eucrypta chrysanthemifolia var. *chrysanthemifolia*	Common eucrypta	2006, 2014/15/17
Nemophila menziesii var. *menziesii*	Baby blue-eyes	
Pectocarya species	Pectocarya	2006
Pectocarya linearis	Slender pectocarya	2014/15/16/17/18
Pectocarya penicillata	Winged combseed	2017
Phacelia minor	Wild Canterbury bells	2014/15/17
Phacelia ramosissima	Branching phacelia	2006, 2017
Plagiobothrys species	Unidentified popcorn flower	2018

Scientific Name	Common Name	Year
Brassicaceae	**Mustard Family**	
*Brassica tournefortii**	Sahara mustard*	2014/15/17
*Capsella bursa-pastoris**	Shepherd's purse*	2014/15
Descurainia pinnata	Western tansy-mustard	2014/15/16/18
Descurainia species	Tansy-mustard	2006
*Hirschfeldia incana**	Short-pod mustard*	2006, 2014/15/16/17/18
*Lepidium latifolium**	Broad-leaved pepper grass*	2018
Lepidium nitidum	Shining peppergrass	2014/15/17
*Sisymbrium erysimoides**	Australian rocket*	2014/15/17
*Sisymbrium irio**	London rocket*	2014/15/16/17/18
*Sisymbrium orientale**	Hare's-ear cabbage*	2017
Cactaceae	**Cactus Family**	
Cylindropuntia californica var. *parkeri*	Valley cholla	2014/15/17
*Opuntia ficus-indica**	Indian-fig*	2017
Opuntia littoralis	Coastal prickly pear	2014/15/17
Caryophyllaceae	**Pink Family**	
*Cerastium glomeratum**	Mouse-ear chickweed*	2017
Herniaria hirsuta ssp. *cinerea**	Hairy rupture-wort*	2017
Chenopodiaceae	**Goosefoot Family**	
Chenopodium species	Pigweed	2006, 2014/15
*Chenopodium album**	Lamb's quarters*	2014/15/16/18
Chenopodium berlandieri	Pitseed goosefoot	2017
Chenopodium californicum	California goosefoot	2017
*Chenopodium murale**	Nettle-leaved goosefoot	2017
*Salsola australis**	Australian tumbleweed*	2017
*Salsola tragus**	Russian thistle*	2006, 2014/15/16/18
Convolvulaceae	**Morning-glory Family**	
Calystegia macrostegia ssp. *arida*	Finger-leaved morning-glory	2017
Calystegia macrostegia ssp. *intermedia*	Short-lobed morning-glory	2014/15
Cuscuta species	Dodder	2006, 2014/15/16/17/18
Crassulaceae	**Stonecrop Family**	
Crassula connata	Pygmy stonecrop	2006, 2014/15/16/17/18
Dudleya lanceolata	Lance-leaf dudleya	2014/15/16/17/18
Cucurbitaceae	**Gourd Family**	
Cucurbita foetidissima	Calabazilla	2006, 2014/15/16/17/18
Marah macrocarpa	Wild-cucumber	2006, 2014/15/16/17/18
Euphorbiaceae	**Spurge Family**	
Croton californicus	California croton	2006, 2014/15/16/17/18
Croton [*Eremocarpus*] *setiger*	Doveweed	2006, 2014/15/16/17/18
Euphorbia albomarginata	Rattlesnake weed	2006, 2017
*Euphorbia maculata**	Spotted spurge*	2017
*Ricinus communis**	Castor bean*	2006, 2014/15/16/17/18
Stillingia linearifolia	Narrow-leaved stillingia	2017
Fabaceae	**Pea Family**	
Acmispon americanus var. americanus	"Spanish" clover	2014/15/16/17/18

Scientific Name	**Common Name**	**Year**
Fabaceae (cont.)	**Pea Family**	
Acmispon glaber var. *brevialutus*	Deerweed	2006, 2014/15/16/17/18
Acmispon micranthus	Fishhook lotus	2017
Acmispon strigosus	Strigose lotus	2017
Lupinus bicolor	Dove lupine	2014/15/16/18
Lupinus hirsutissimus	Stinging lupine	2014/15/17
*Medicago polymorpha**	Bur-clover*	2017
*Melilotus indicus**	Sourclover*	2017
*Parkinsonia aculeata**	Mexican palo verde*	2017
Fagaceae	**Oak Family**	
Quercus palmeri	Palmer's oak	2006, 2014/15/16/17/18
Geraniaceae	**Geranium Family**	
*Erodium botrys**	Longbeak stork's bill*	2018
*Erodium cicutarium**	Red-stemmed filaree*	2006, 2014/15/16/17/18
*Erodium moschatum**	White-stemmed filaree*	2006, 2014/15/16/17/18
Grossulariaceae	**Gooseberry Family**	
Ribes indecorum	White-flowered currant	2014/15/17
Lamiaceae	**Mint Family**	
*Marrubium vulgare**	Horehound*	2006, 2014/15/16/17/18
Salvia apiana	White sage	2006, 2014/15/16/17/18
Salvia columbariae	Chia	2006, 2014/15/16/17/18
Salvia mellifera	Black sage	2006, 2014/15/16/17/18
Stachys albens	White hedge-nettle	2014/15/16/18
Stachys rigida var. *quercetorum* [*S. ajugoides rigida*]	Hillside hedge-nettle	2006/2017
Trichostemma lanceolatum	Vinegarweed	2018
Malvaceae	**Mallow Family**	
Malacothamnus fasciculatus var. *fasciculatus*	Chaparral bush-mallow	2017
*Malva parviflora**	Cheeseweed*	2006, 2014/15/16/17/18
Montiaceae	**Miner's Lettuce Family**	
Claytonia parviflora ssp. *parviflora*	Narrow-leaved miner's lettuce	2017
Myrsinaceae	**Myrsine Family**	
*Anagallis arvensis**	Scarlet pimpernel*	2017
Nyctaginaceae	**Four O'clock Family**	
Mirabilis laevis var. *crassifolia*	Wishbone bush	2006, 2014/15/16/17/18
Oleaceae	**Olive Family**	
*Olea europaea**	European olive*	2006, 2014/15/16/17/18
Onagraceae	**Evening Primrose Family**	
Camissonia strigulosa	Suncup	2006
Camissoniopsis (*Camissonia*) *bistorta*	California suncup	2017
Camissoniopsis (*Camissonia*) *hirtella*	Suncup	2006/2017
Camissoniopsis (*Camissonia*) *ignota*	Jurupa Hills suncup	2006
Epilobium canum ssp. *canum*	California fuchsia	2006/2017
Eulobus (*Camissonia*) *californica*	False-mustard	2014/15/17

Scientific Name	**Common Name**	**Year**
*Oenothera laciniata**	Evening primrose*	2006
Papaveraceae	**Poppy Family**	
Eschscholzia californica	California poppy	2018
Phrymaceae	**Lopseed Family**	
Mimulus aurantiacus var. *pubescens*	Bush monkey flower	2006, 2014/15/16/17/18
Mimulus guttatus	Seep monkey flower	2017
Plantaginaceae	**Plantain Family**	
Antirrhinum nuttallianum ssp. *nuttallianum*	Nuttall's snapdragon	2017
Keckiella antirrhinoides ssp. *antirrhinoides*	Yellow bush-penstemon	2006, 2014/15/16/17/18
Platanaceae	**Sycamore Family**	
Platanus racemosa	California sycamore	2014/15/17/18
Polemoniaceae	**Phlox Family**	
Eriastrum species	Woollystar	2006
Eriastrum sapphirinum	Sapphire woollystar	2014/15/16/2017/18
Gilia angelensis	Common gilia	2006, 2017
Polygonaceae	**Buckwheat Family**	
Eriogonum fasciculatum var. *foliolosum*	Leafy California buckwheat	2006, 2014/15/16/17/18
Eriogonum fasciculatum var. *polifolium*	Rosemary California buckwheat	2017
Eriogonum gracile	Slender buckwheat	2014/15/16/18
*Polygonum aviculare**	Knotweed*	2017
Pterostegia drymarioides	Woodland threadstem	2014/15/17
Ranunculaceae	**Buttercup Family**	
Clematis pauciflora	Rope vine	2014/15/17
Rhamnaceae	**Buckthorn Family**	
Rhamnus crocea	Spiny redberry	2006, 2014/15/16/17/18
Rosaceae	**Rose Family**	
Adenostoma fasciculatum	Chamise	2006, 2014/15/16/17/18
Prunus ilicifolia	Hollyleaf cherry	2016/17/18
Rubiaceae	**Madder Family**	
Galium angustifolium ssp. *angustifolium*	Narrow-leaved bedstraw	2017
*Galium aparine**	Annual bedstraw*	2006, 2014/15/16/17/18
Salicaceae	**Willow Family**	
Salix gooddingii	Black willow	2006, 2014/15/16/17/18
Salix lasiolepis	Arroyo willow	2006, 2014/15/16/17/18
Simaroubaceae	**Simarouba Family**	
*Ailanthus altissima**	Tree of heaven*	2017
Solanaceae	**Nightshade Family**	
Datura wrightii	Western jimsonweed	2006, 2014/15/16/17/18
*Nicotiana glauca**	Tree tobacco*	2006, 2014/15/16/17/18
Nicotiana quadrivalvis	Wallace's tobacco	2017
Solanum douglasii	White nightshade	2006, 2014/15/16/17/18
Solanum xanti	Chaparral nightshade	2014/15/17

Scientific Name	Common Name	Year
Urticaceae	**NettleFamily**	
Parietaria hespera var. *californica*	California pellitory	2017
*Urtica urens**	Dwarf nettle*	2017
Verbenaceae	**Vervain Family**	
*Lantana camara**	Lantana*	2017
Vitaceae	**Grape Family**	
Vitis californica	California wild grape	2006
Zygophyllaceae	**Caltrop Family**	
Larrea tridentata (only 1 observed, steep slope)	Creosote bush	2017
*Tribulus terrestris**	Puncture vine*	2014/15/16/17/18
Angiosperms/ Monocots		
Agavaceae	**Agave Family**	
Hesperoyucca whipplei	Chaparral yucca	2017
Alliaceae	**Onion Family**	
Allium praecox	Early onion	2017
Liliaceae	**Lily Family**	
*Calochortus plummerae*** (CRPR 4.2)	Plummer's mariposa lily**	2017
Poaceae	**Grass Family**	
*Arundo donax**	Giant reed*	2014/15/17/18
*Avena barbata**	Slender wild oat*	2006, 2014/15/16/17/18
*Avena fatua**	Wild oat*	2006, 2014/15/16/17/18
*Bromus diandrus**	Ripgut brome*	2006, 2014/15/16/17/18
Bromus madritensis ssp. *rubens**	Red brome*	2006, 2014/15/16/17/18
Elymus canadensis (identification suspect)	Canadian wild rye	2006
Elymus (*Leymus*) *condensatus*	Giant wild rye	2014/15/16/17/18
Festuca (*Vulpia*) *myuros**	Rat-tail fescue*	2006, 2014/15/16/17/18
*Hordeum marinum**	Mediterranean barley*	2014/15/16/18
*Hordeum murinum ssp. leporinum**	Hare barley*	2006/2017
Hordeum murinum ssp. *glaucum**	Glaucous barley*	2017
*Lamarckia aurea**	Goldentop grass*	2014/15/17
Melica imperfecta	Small-flowered melic-grass	2014/15/17
*Pennisetum setaceum**	African fountain grass*	2017
*Polypogon monspeliensis**	Rabbitfoot grass*	2006, 2014/15/16/18
*Schismus barbatus**	Mediterranean grass*	2006, 2014/15/16/17/18
*Secale cereale**	Cereal rye*	2006
*Triticum aestivum**	Wheat*	2006, 2014/15/16/17/18
Themidaceae	**Brodiaea Family**	
Dichelostemma capitatum	Wild hyacinth	2014/15/16/17/18

Table 10. List of wildlife species identified on the Rio Vista site in 2006, 2014, 2015, 2016, 2017, and/or 2018 (N=291). One asterisk (*) indicates a non-native species; two asterisks (**) indicates a special status species.

Scientific Name	Common Name	Year
REPTILES (11)		
Iguanidae	**Iguanid Family**	
Phrynosoma blainvillii	Coast Horned Lizard**	2006
Sceloporus occidentalis	Western Fence Lizard	2006, 2014/15/16/18
Sceloporus orcutti	Granite Spiny Lizard	2006, 2014/15/16/17/18
Uta stansburiana	Side-blotched Lizard	2006, 2014/15/16/17/18
Teiidae	**Whiptails and Relatives**	
Aspidoscelis hyperythra	Orange-throated Whiptail**	2016/18
Aspidoscelis tigris stejnegeri	Coastal Western Whiptail**	2006, 2014/15
Anguidae	**Alligator Lizards**	
Elgaria multicarinatus	Southern Alligator Lizard	2006
Boidae	**Boas and Pythons**	
Lichanura orcutti	Rosy Boa	2017
Colubridae	**Colubrid Snake Family**	
Coluber (Masticophis) flagellum	Coachwhip	2014/15
Pituophis catenifer	Gopher Snake	2006, 2014/15/18
Viperidae	**Viper Family**	
Crotalus ruber	Red-diamond Rattlesnake**	2006, 2014 2015/16/17
BIRDS (64)		
Acciptiridae	**Hawk Family**	
Accipiter cooperii	Cooper's Hawk**	2006, 2014/15/16/18
Buteo jamaicensis	Red-tailed Hawk	2006, 2014/15/16/17/18
Circus cyaneus	Northern Harrier**	2006
Aegithalidae	**Long-tailed Tit Family**	
Psaltriparus minimus	Bushtit	2006, 2014/15/16/18
Apodidae	**Swift Family**	
Aeronautes saxatalis	White-throated Swift	2006, 2014/15/16/17/18
Chaetura vauxi	Vaux's Swift	2017
Ardeidae	**Heron Family**	
Ardea alba	Great Egret**	2014/15
Bombycillidae	**Waxwing Family**	
Phainopepla nitens	Phainopepla	2016/17
Scientific Name	**Common Name**	**Year**
Cardinalidae	**Cardinal Family**	
Passerina caerulea	Blue Grosbeak	2006, 2014/15

Cathartidae	**Vulture Family**	
Cathartes aura	Turkey Vulture	2014/15/16/17/18
Charadriidae	**Plover Family**	
Charadrius vociferus	Killdeer	2014/15/16/18
Columbidae	**Pigeon Family**	
Columba livia	Rock Pigeon	2006, 2014/15/16/17/18
Streptopelia decaocto	Eurasian Collared Dove	2015/17
Zenaida macroura	Mourning Dove	2006, 2014/15/16/17/18
Corvidae	**Jay and Crow Family**	
Aphelocoma californica	California Scrub-jay	2006, 2014/15/16/18
Corvus brachyrhynchos	American Crow	2006, 2014/15/16/18
Corvus corax	Common Raven	2006, 2014/15/16/17/18
Cuculidae	**Cuckoo and Roadrunner Family**	
Geococcyx californianus	Greater Roadrunner	2014/15/16/17/18
Falconidae	**Falcons**	
Falco sparverius	American Kestrel	2006, 2016/17/18
Fringillidae	**Finch Family**	
Spinus lawrencei	Lawrence's Goldfinch**	2014/15
Spinus psaltria	Lesser Goldfinch	2006, 2014/15/16/17/18
Spinus tristes	American Goldfinch	2006
Haemorhous mexicanus	House Finch	2006, 2014/15/16/17/18
Hirundinidae	**Swallow Family**	
Hirundo rustica	Barn Swallow	2006, 2014/15/17
Petrochelidon pyrrhonota	Cliff Swallow	2006, 2016/17/18
Stelgidopteryx serripennis	Northern Rough-winged Swallow	2006, 2014/15
Tachycineta thalassina	Violet-green Swallow	2006
Icteridae	**Blackbird Family**	
Agelaius phoeniceus	Red-winged blackbird	2006
Euphagus cyanocephalus	Brewer's Blackbird	2006, 2014/15/18
Icterus bullockii	Bullock's Oriole	2006, 2014/15/16/17
Sturnella neglecta	Western Meadowlark	2006, 2014/15/16/17/18
Laridae	**Skuas, Gulls, Terns and Allies**	
Larus californicus	California Gull	2006
Mimidae	**Mockingbird Family**	
Mimus polyglottos polyglottos	Northern Mockingbird	2006, 2014/15/16/17/18
Odontophoridae	**Quail Family**	
Callipepla californica californica	California Quail	2006, 2014/15/16/17/18
Parulidae	**Wood-Warbler Family**	
Dendroica coronata	Yellow-rumped Warbler	2006
Oreothlypis celata	Orange-crowned Warbler	2006

Scientific Name	Common Name	Year
Passerellidae	**New World Sparrows**	
Aimophila ruficeps canescens	Rufous-crowned Sparrow**	2006, 2014/15/16/18
Melospiza lincolnii	Lincoln's Sparrow	2006
Melospiza melodia	Song Sparrow	2014/15/16/18
Melozone crissalis	California Towhee	2006, 2014/15/16/17/18
Passerculus sandwichensis	Savannah Sparrow	2006, 2014/15/16
Pipilo maculatus	Spotted Towhee	2006, 2014/15/16/17/18
Spizella passerina	Chipping Sparrow	2018
Zonotrichia leucophrys	White-crowned Sparrow	2006, 2017/18
Passeridae	**Old World Sparrow Family**	
Passer domesticus	House Sparrow	2006, 2014/15/16/17/18
Picidae	**Woodpecker Family**	
Colaptes auratus	Northern Flicker	2014/15
Picoides nuttallii	Nuttall's Woodpecker	2018
Polioptilidae	**Gnatcatcher Family**	
Polioptila caerulea	Blue-gray Gnatcatchers	2006
Polioptiila californica californica	Coastal California Gnatcatcher**	2017
Sturnidae	**Starling Family**	
Sturnus vulgaris	European Starling*	2006, 2014/15/16/17/18
Timaliidae	**Babbler Family**	
Chamaea fasciata	Wrentit**	2014/15/16/17/18
Trochilideae	**Hummingbird Family**	
Archilochus alexandri	Black-chinned Hummingbird	2006
Calypte anna	Anna's Hummingbird	2006, 2014/15/16/17/18
Calypte costae	Costa's Hummingbird**	2006, 2014/15/16/18
Selasphorus sasin	Allen's Hummingbird**	2018
Troglodytidae	**Wren Family**	
Catherpes mexicanus	Canyon Wren	2014/15/16/17/18
Salpinctes obsoletus	Rock Wren	2006, 2014/15/16/17/18
Thryomanes bewickii	Bewick's Wren	2006, 2014/15/16/17/18
Turdidae	**Thrush Family**	
Sialia mexicana	Western Bluebird	2018
Tyrannidae	**Tyrant Flycatchers**	
Myiarchus cinerascens	Ash-throated Flycatcher	2014/15/17/18
Sayornis nigricans	Black Phoebe	2006, 2014/15/16/17/18
Sayornis saya	Say's Phoebe	2006, 2014/15/16/17/18
Tyrannus vociferans	Cassin's Kingbird	2006, 2017
Tyrannus verticalis	Western Kingbird	2006, 2014/15/16/17/18
MAMMALS (9)		
Canidae	**Dog, Fox & Coyote Family**	
Canis latrans	Coyote	2006, 2014/15/16/18
Canis domesticus	Domestic Dog	2014/15/16/18

Scientific Name	Common Name	Year
Equidae	**Horse Family**	
Equus caballus	Domestic Horse	2018
Felidae	**Cat Family**	
Felis domesticus	Domestic Cat	2015/16
Lynx rufus	Bobcat (sign)	2015
Geomyidae	**Pocket Gopher Family**	
Thomomys bottae	Botta's Pocket Gopher	2006, 2014/15/16/17/18
Sciuridae	**Squirrel Family**	
Spermophilus beecheyi	California Ground Squirrel	2006, 2014/15/16/17/18
Leporidae	**Rabbit Family**	
Lepus californicus	Black-tailed Jackrabbit**	2006, 2014/15/16/18
Sylvilagus audubonii	Audubon's Cottontail	2006, 2014/15/16/17/18

Insects (207)

COLEOPTERA	**BEETLES**	
Buprestidae	**Ground Beetle Family**	
Nanularia brunneata	Metallic Wood Borer	2016
Carabidae	**Ground Beetle Family**	
Undetermined species	Undetermined Species	2006
Cerambycidae	**Long-horned Beetles**	
Tragidion sp.	Tarantula Hawk Mimic Long-horned Beetle	2006
Chrysomelidae	**Leaf Beetle Family**	
Diabrotica balteata	Banded Cucumber Beetle	2006
Diabrotica undecimpunctata	Western Spotted Cucumber Beetle	2006
Lema trilineata	Three-lined Potato Beetle	2014/15/16
Coscinoptera aeneipennis	Bronze-winged Leaf Beetle	2014/15
Coccineilidae	**Ladybird Beetle Family**	
Hippodamia convergens	Convergent Ladybird Beetle	2006
Curculionidae	**Snout and Bark Beetle Family**	
Apieurus albovestita	No common name	2006
Unidentified Sp 1 (*Datura*)	Weevil (small gray)	2014/15/16
Unidentified Sp 2 (*Ambrosia*)	Weevil (large gray)	2014/15/16
Mordelidae	**Tumbling Flower Beetle Family**	
Mordellistina species	Tumbling Flower Beetle	2014/15
Unidentified species	Unidentified species	2006
Scarabaeidae	**Scarab Beetle Family**	
Cotinus mutibilus	Green June Beetle	2006, 2014/15/16
Oxygrylius ruginasus	No common name	2006
Rhipiphoridae	**Wedge-shaped Beetle Family**	
Macrosaigon flavipenne	Wedge-shaped Beetle	2006

Scientific Name	Common Name	Year
Tenebrionidae	**Darkling Beetle Family**	
Eleodes species	Darkling Beetle	2014/15/16
Eleodes gracilis	Stink Beetle	2006
Unidentified species	Unidentified species	2006
DIPTERA	**FLIES**	
Apioceridae	**Flower-loving Fly Family**	
Apiocera sp	Unidentified species	2006
Apiocera chrysolasia	Flower-loving Fly	2014/15/16
Asilidae	**Robber Fly Family**	
Efferia albibarbis	Common Robber Fly	2006
Mallophora fautrix	Bumblebee Robber Fly	2014/15
Proctocanthus species	Robber Fly	2014/15
Proctacanthus occidentalis	No common name	2006
Promachus aldrichii	No common name	2006
Sarapogon luteus	Robber Fly	2014/15/16
Stenopogon species	Robber Fly	2014/15/16
Stenopogon breviusculus	No common name	2006
Bombyliidae	**Bee Fly Family**	
Exoprosopa butleri	No common name	2006
Ligyra gazophylax	No common name	2006
Thyridanthrax atrata	Black-Winged Bee Fly	2014/15/16
Thyridanthrax pallida	No common name	2006
Villa species	Bee Fly	2014/15/16
Villa, Anthrax or Thyridanthrax sp	Black Bee Fly	2006
Villa moliter	No common name	2006
Poecilanthrax species	Bee Fly	2014/15
Unidentified (several)	Bee Fly	2014/15/16
Calliphoridae	**Blow Fly Family**	
Phaenicia sp.	Green Bottle Fly	2006
Conopidae	**Thick-headed Fly Family**	
Physocephala texana	Thread-waisted Conopid	2006
Cuterebridae	**Robust Bot Fly Family**	
Cuterebra latrifrons	Wood Rat Bot Fly	2006
Dolichopodidae	**Long-legged Fly Family**	
Condylostylus pilicornis	Long-legged Fly	2014/15
Drosophilidae	**Vinegar Fly Family**	
Unidentified	Fruit Fly	2014/15
Muscidae	**House Fly Family**	
Musca domestica	House Fly	2014/15/16
Mydidae	**Mydas Fly Family**	
Nemomydas pantherinus	Mydas Fly	2006
Rhaphiomidas terminates abdominalis	Delhi Sands flower-loving fly**	2006

Scientific Name	Common Name	Year
Sarcophagidae	**Flesh Fly Family**	
Unidentified	Flesh Fly	2006, 2014/15/16
Syrphidae	**Syrphid Fly Family**	
Allograpta obliqua	Hover Fly	2014/15/16
Copestylum Mexicana	Cactus Fly	2006
Eristalis aenius	Hover Fly	2006
Eristalis latifrons	No common name	2006
Eristalis tenax	No common name	2006
Tachinidae	**Tachinid Fly Family**	
Cylindromyia sp	No common name	2006
Eumachronychia sp	Undetermined species	2006
Gymnosoma fulginosum	No common name	2006
Unidentified	Tachinid Fly	2014/15/16
Tabanidae	**Horse Fly Family**	
Tabanus punctifer	Big Black Horse Fly	2006
HEMIPTERA	**TRUE BUGS**	
Alydidae	**Broad-headed Bugs**	
Alydus sp.	Unidentified species	2006
Aphididae	**Aphid Family**	
Unidentified	Aphid	2014/15/16
Cercopidae	**Spittlebug Family**	
Clastoptera sp.	Spittlebug	2006
Unidentified	Spittlebug	2014/15/16
Cicadidae	**Cicada Family**	
Okanagana species	Cicada	2014/15/16
Unidentified species	Unidentified species	2006
Cicadellidae	**Leafhopper Family**	
Homalodisca coagulate	Glassy-winged sharp-shooter	2006
Homalodisca lacerta	Sharpshooter	2006, 2014/15/16
Largidae	**Largid Bug Family**	
Largus cinctus californicus	Bordered Plant Bug	2006
Lygaeidae	**Seed Bug Family**	
Lygaeus kalmia	Small Milkweed Bug	2006, 2014/15
Miridae	**Plant Bug Family**	
Unidentified	Plant Bug	2014/15
Pentatomidae	**Stink Bug Family**	
Chlorochroa uhleri	Uhler's Stink Bug	2006, 2014/15/16
Chlorochroa sayi	Say's Stink Bug	2006, 2014/15/16
Bagrada hilaris	African Harlequin Bug	2014/15
Trichopepla aurora	Horehound Bug	2006

Scientific Name	Common Name	Year
Reduviidae	**Assassin Bug Family**	
Apiomerus crassipes	Bee Assassin	2006
Rhynocoris ventralis	Spotted Assassin	2006
Sinea diadema	No common name	2006
Zelus tetracanthus	Four-spurred Assassin Bug	2006, 2014/15
Zelus renardii	Assassin Bug	2006, 2014/15
Tingidae	**Lace Bug Family**	
Unidentified (*Helianthus*)	Lace Bug	2014/15/16
HYMENOPTERA	**BEES, WASPS AND ANTS**	
Andrenidae	**Mining Bee Family**	
Perdita crotonis	Andrenid Bee	2014/15
Apidae	**Long-tongued Bee Family**	
Anthophoraa urbana	Urban Anthophorid	2006
Apis mellifera	Honey Bee*	2006, 2014/15/16
Bombus crotchii	Crotch Bumble Bee**	2006
Ericrocis lata	No common name	2006
Melissodes species	Long-horned Bee	2014/15/16
Melissodes sp.	No common name	2006
Nomad asp.	Cuckoo Bee	2006
Tetraloniella sp.	No common name	2006
Xylocopa varipuncta	Valley carpenter bee	2006
Zacosmia maculate	No common name	2006
Chalcididae		
Unidentified	Chalcid Wasp	2014/15
Chrysididae	**Cuckoo Wasp**	
Parnopes edwardsii	Cuckoo Wasp	2006, 2016
Crabronidae		
Bembix comata	Sand Wasp	2014/15/16
Eucerceris insignis	Crabronid Wasp	2014/15
Microbembix californica	Crabronid Wasp	2014/15
Philanthus multimaculatus	Crabronid Wasp	2014/15
Philanthus species	Crabronid Wasp	2014/15
Tachysphex species	Crabronid Wasp	2014/15
Formicidae	**Ant Family**	
Linepithema humile	Argentine Ant*	2006
Liometopum species	Tree Ant	2014/15
Messor pergandei	Black Harvester Ant	2006
Messor species	Harvester Ant	2014/15/16
Pogonomyrmex californicus	California Harvester Ant	2014/15/16
Solenopsis species	Fire Ant	2006, 2014/15/16
Halictidae	**Sweat Bee Family**	
Agapostemon texana	Metallic Sweat Bee	2006, 2014/15/16
Dieunomia nevadensis	Sweat Bee	2014/15

Scientific Name	Common Name	Year
Ichneumonidae	**Ichneumon Wasp Family**	
Unidentified	Ichneumon Wasp	2014/15
Megachilidae	**Leaf-cutter Bee Family**	
Megachile species	Leaf-cutter Bee	2006, 2014/15
Mutillidae	**Velvet Ant Family**	
Dasymutilla species	Velvet Ant (Red)	2014/15/16
Dasymutilla californica	Velvet Ant (Red)	2006
Dasymutilla clytemnestra	Velvet Ant (Red)	2006
Dasymutilla pacifica	Velvet Ant (Red)	2006
Pseudomethoca species	Velvet Ant (Black)	2014/15
Pompilidae	**Spider Wasp Family**	
Pepsis species	Tarantula Hawk Wasp	2014/15/16
Pepsis thisbe	Tarantula Hawk Wasp	2006
Scoliidae	**Scoliid Wasp Family**	
Campsomeris tolteca	Toltec Scoliid Wasp	2006, 2014/15/16
Crioscolia (Trielis) alcione	Scoliid Wasp	2014/15/16
Sphecidae	**Thread-waisted Wasp Family**	
Ammophila alberti	Sphecid Wasp	2006, 2014/15
Ammophila azteca	Sphecid Wasp	2006
Ammophila species	Sphecid Wasp	2014/15/16
Bambix Americana comata	Sand Wasp	2006
Bembix melenopsis	Large Fly Killer	2006
Cerceris femurrubrum	Weevil Wasp	2006
Chalybion californicum	Blue mud Wasp	2006
Chlorion aerarium	Steel Blue Cricket Hunter	2006, 2014/15/16
Hapalomellinus sp.	No common name	2006
Philanthus multimaculatus	Bee Killer Wasp	2006
Prionyx foxii	Grasshopper Hunter	2006
Prionyx thomae	No common name	2006
Prionyx species	Sphecid Wasp	2016
Sceliphron caementarium	Common Mud Dauber	2006, 2014/15/16
Taschytes elongates	Sand Wasp	2006
Vespidae	**Yellowjacket, Hornet, Paper Wasp Family**	
Eumenes bollii	Potter Wasp	2006
Euodynerus annulatus	No common names	2006
Polistes apachus	Apache Wasp	2006
Polistes dominulus	European Paper Wasp	2006
Polistes dorsalis	Paper Wasp	2006
Polistes fuscatus	Paper Wasp	2006, 2014/15/16
Polistes exclamans	Paper Wasp	2006, 2014/15
LEPIDOPTERA	**BUTTERFLIES AND MOTHS**	
Danaidae	**Milkweed Butterfly Family**	
Danaus gilippus	Striated Queen	2006
Danaus plexippus	Monarch	2006

Scientific Name	Common Name	Year
Hesperiidae	**Skipper Family**	
Erynnis funeralis	Funereal Duskywing	2006, 2014/15/16
Hylephila phyleus	Fiery Skipper	2006
Pyrgus albescens	Common/White-checkered Skipper	2014/15/16
Pyrgus communis	Checkered skipper	2006
Scientific Name	**Common Name**	**Year**
Lycaenidae	**Blues & Copper Family**	
Brephidium exilis	Pigmy Blue	2006, 2014/15/16
Hemiargus ceraunus gyas	Edward's Blue	2006
Icaricia acmon	Acmon Blue	2006, 2014/15
Leptodes marina	Marine Blue	2006
Strymon melinus	Gray Hairstreak	2006
Strymon melinus pudica	Common hairstreak	2014/15/16
Noctuidae	**Owlet Moth Family**	
Unidentified	Noctuid moth (larva)	2014/15/16
Nymphalidae	**Brushfoot Butterfly Family**	
Agraulis vanilla	Gulf Fritillary	2006, 2014/15
Junonia coenia	Buckeye	2006
Vanessa Annabella	West Coast Lady	2006
Vanessa cardui	Painted Lady	2006
Papilionidae	**Swallowtail Family**	
Papilio cresphontes	Giant Swallowtail*	2006, 2014/15/16
Papilio rutulus	Western Tiger Swallowtail	2006
Pieridae	**Whites & Sulphur Family**	
Pieris rapae	Cabbage White	2014/15/16
Phoebis sennae	Cloudless Sulfur	2014/15/16
Pontia protodice	Checkered White	2006, 2014/15/16
Colias eurytheme	Alfalfa Sulfur	2006, 2014/15/16
Colias philodice	Common Sulfur	2014/15
Pyralidae	**Pyralid Moth Family**	
Unidentified	Pyralid Moth	2006, 2014/15/16
Sphingidae	**Sphinx Moth Family**	
Manduca sexta (larva on *Datura*)	Tobacco Hornworm Sphinx	2006, 2014/15
Tortricidae	**Tortricid Moth Family**	
Cochlyis species (*Helianthus)*	Tortricid Moth	2014/15
NEUROPTERA	**NET-WINGED INSECTS**	
Chrysopidae	**Green Lacewing Family**	
Chrysopa species (ova – 2014/15/16)	Green Lacewing	2006, 2014/15/16
Myrmeleontidae	**Antilion Family**	
Brachynemerus species	Antlion	2014/15
Myrmeleontidae (cont.)	**Antilion Family**	
Myrmeleon species	Antlion	2014/15/16
Undetermined species	Undetermined species	2006

Scientific Name	Common Name	Year
ODONATA	**DRAGONFLIES AND DAMSELFLIES**	
Aeshnidae	**Darner Family**	
Aeshna multicolor	Blue-eyed Darner	2006, 2014/15/16
Anax junius	Common Green Darner	2006, 2014/15/16
Coenagrionidae	**Narrow-winged Damselfly Family**	
Argia species	Damselfly	2014/15
Argia vivida	Violet Dancer	2006
Enallagma species	Damselfly	2014/15/16
Gomphidae	**Clubtail Family**	
Unidentified	Clubtail	2014/15
Libellulidae	**Skimmer Family**	
Erythemis collocate	Western Pondhawk	2014/15
Libellula saturata	Big Red Skimmer	2006, 2014/15/16
Pachydiplax longipennis	Blue Dasher	2014/15
Pantala species	Wandering Glider	2014/15/16
Pantala flavescens	Wandering Skimmer	2006
Sympetrum corruptum	Variegated Meadowhawk	2006, 2014/15/16
Sympetrum illiotum	Red-tinged Skimmer	2014/15
Tramea lacerate	Black saddlebags	2006
Tramea onusta	Brown Skimmer	2014/15
ORTHOPTERA	**GRASSHOPPERS, MANTIDS, ROACHES, ETC.**	
Acrididae	**Short-horned Grasshopper Family**	
Derotmema saussuraenum	No common name	2006
Melanoplus species	Short-horned Grasshopper	2014/15/16
Psoloessa thamnogaea	No common name	2006
Schistocerca species	Short-horned Grasshopper	2014/15/16
Schistocerca nitens	Gray Bird Grasshopper	2006
Trimeritropis species	Short-horned Grasshopper	2014/15/16
Trimerotropis fontana	No Common name	2006
Trimerotropis pallidipennis	Pallid-winged Bandwing	2006
Gryllacrididae	**Wingless Long-horned Grasshopper Family**	
Stenopelmatus sp.	Jerusalem Cricket	2006
Gryllidae	**Cricket Family**	
Oecanthus sp.	Tree Cricket	2006
Undetermined species	Undetermined species	2006
Mantidae	**Praying Mantid Family**	
Iris oratoria	Mediterranean Mantid*	2006, 2014/15/16
Litaneutria minor	Minor Ground Mantis	2006
ARACHNIDA	**SPIDERS, ETC.**	
Agelenidae	**Funnel-web or Grass Spider Family**	
Unidentified	Funnel Web Spider	2006, 2014/15
Araneidae	**Orb Weaver Spider Family**	
Araneus sp.	Orb Weaver	2006

Scientific Name	Common Name	Year
Oxyopodidae	**Lynx Spiders**	
Peucetia viridans	Green Lynx Spider	2006
Salticidae	**Jumping Spider Family**	
Unidentified	Jumping Spider	2006, 2014/15/16

Scientific Name	Common Name	Year
Tetranychidae	**Spider Mite Family**	
Tetranychus urticae	Two-spotted Spider Mite	2016
Theridiidae	**Cobweb Spider Family**	
Lactrodectus geometricus	Brown Widow Spider	2014/15/16
Lactrodectus Hesperus	Western Black Widow Spider	2006
Thomisidae	**Crab Spider Family**	
Unidentified	Crab Spider	2006, 2014/15/16
SCORPIONIDA	**SCORPIONS**	
Vejovidae	**Vejovid**	
Anuroctonus phaiodactylus	Burrowing Scorpion	2006

Crustaceans

ISOPODA	**ISOPODS**	
Oniscidae	**Woodlice**	
Armadillidium vulgare	Common Pill Bug	2006

* Non-native species
** Special status species

Table 11. Special status species observations.

Taxon	Coordinates (WGS84)	No.	Location on Project Site	Year
Plummer's mariposa lily	34.017945 N, 117.414515 W	4	East-central	2017
Palmer's oak	Location withheld for the protection of the specimen	1	Northeast	2015
Orange-throated Whiptail	34.010629 N, 117.404146 W	1	Southwest	2016
Orange-throated Whiptail	34.012515 N, 117.412869 W	1	Southwest	2018
Red Diamond Rattlesnake	34.022734 N, 117.412632 W	1	West-central	2015
Red Diamond Rattlesnake	34.027838 N, 117.413768 W	1	Northwest	2016
Red Diamond Rattlesnake	34.020217 N, 117.405024 W	1	West-central	2017
Red Diamond Rattlesnake	34.024085 N, 117.412988 W	1	West-central	2018
Cooper's Hawk	34.032996 N, 117.410437 W	1	Northwest	2014
Cooper's Hawk	34.032996 N, 117.410437 W	1	Northwest	2015
Cooper's Hawk	34.027741 N, 117.413734 W	1	Northwest	2016
Cooper's Hawk	34.029119 N, 117.412982 W	1	Northwest	2018
Lawrence's Goldfinch	34.025808 N, 117.399414 W	5	Northeast	2014
Northern Harrier	34.024434 N, 117.415952 W	1	West-central	2016
Coastal California gnatcatcher	34.023170 N, 117.404462 W	1	East-central	2017
	34.011581 N, 117.407125 W	2	South	2017
Rufous-crowned Sparrow	34.032723 N, 117.404135 W	1	North	2014
Rufous-crowned Sparrow	34.032270 N, 117.405278 W	1	North	2016
Black-tailed Jackrabbit	34.027385 N, 117.413317 W	1	West	2014
Black-tailed Jackrabbit	34.012518 N, 117.412604 W	1	Southwest	2014
Black-tailed Jackrabbit	34. 025034 N, 117.404338 W	1	Central	2016
Black-tailed Jackrabbit	34.022570 N, 117.405073 W	1	Central	2018
Black-tailed Jackrabbit	34.032485 N, 117.411073 W	1	Central	2018

California Natural Diversity Database Forms

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Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Accipiter cooperii*

Common Name: Cooper's Hawk

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☑ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1145 ft.
T 1S R 4E Sec 4, NE ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of ____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.032996 N, 117.410437 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub
Cooper's Hawk was observed in a tree tobacco (Nicotiana glauca) in mixed RSS / disturbed area just NE of residential neighborhood

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor
Immediate AND surrounding land use: Open space W, E, S and N, residential to the SW
Visible disturbances: Ornamental trees (Olive), unimproved roads, off-road vehicle activities, dumping, high-density residential nearby
Threats: unknown
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

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California Native Species Field Survey Form

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Scientific Name: *Accipiter cooperii*

Common Name: Cooper's Hawk

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0 # adults 0 # juveniles 0 # larvae 0 # egg masses 0 # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description **(please attach map AND/OR fill out your choice of coordinates, below)**

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1061 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of ____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑
Coordinates: 34.032996 N, 117.410437 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub / ornamental
Cooper's Hawk was observed in a row of olive trees adjacent to open space and a high-density residential area.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space E and N, residential W and S

Visible disturbances: Ornamental trees (Olive), unimproved roads, off-road vehicle activities, residential

Threats: unknown

Comments: may be attracted to backyard bird feeders

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

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California Native Species Field Survey Form

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Scientific Name: *Accipiter cooperii*

Common Name: Cooper's Hawk

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☑ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1145 ft.
T 1S R 4E Sec 4, NE ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.027741 N, 117.413734 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub
Cooper's Hawk was observed within a row of olive trees located between a residential neighborhood and the survey area.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use: Open space W, E, S and N, residential to the SW

Visible disturbances: Ornamental trees (Olive), unimproved roads, off-road vehicle activities, dumping, high-density residential nearby

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

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EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 07/09/2018

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Accipiter cooperi*

Common Name: Cooper's hawk

Species Found? ○ Yes ○ No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? ○ Yes ○ No

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ No ☐ Unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea / L&L Environmental
Address: 700 East Redlands Blvd #U351
Redlands, CA 92373
E-mail Address: cwakeman@llenviroinc.com
Phone: 909.335.9897

Plant Information
Phenology:
_____ % vegetative _____ % flowering _____ % fruiting

Animal Information
1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown
☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ lek ☐ other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Riverside Landowner / Mgr: Private
Quad Name: Fontana Elevation: 1100'
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ Source of Coordinates (GPS, topo. map & type): _____
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ GPS Make & Model: _____
DATUM: NAD27 ○ NAD83 ○ WGS84 ◉ Horizontal Accuracy: _____ meters/feet
Coordinate System: UTM Zone 10 ○ UTM Zone 11 ○ ***OR*** Geographic (Latitude & Longitude) ◉
Coordinates: 34.029119 N, 117.412982 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ○ Excellent ○ Good ○ Fair ○ Poor
Immediate AND surrounding land use: _____
Visible disturbances: _____
Threats: planned development
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☒ Other: identified by experienced field biologist

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? ○ yes ○ no

CDFW/BDB/1747 Rev. 7/15/2015

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/15/2014

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Carduelis lawrencei*

Common Name: Lawrence's Goldfinch

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 5 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1084 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.025808 N, 117.399414 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

A mix of Riversidean sage scrub (brittlebush dominant) and disturbed lands
LAGO was observed within a group of annual sunflowers (Helianthus annuus).

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

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EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 10/26/2016

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Circus cyaneus*

Common Name: Northern Harrier

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 90 % vegetative 10 % flowering 20 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1048 ft.
T 1S R 4E Sec 4, NE ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.024434 N, 117.415952 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub
Northern Harrier was observed flying along side a row of olive trees located between a residential neighborhood and the survey area.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use: Open space W, E, S and N, residential to the SW

Visible disturbances: Ornamental trees (Olive), unimproved roads, off-road vehicle activities, dumping, high-density residential nearby

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

Date of Field Work (mm/dd/yyyy): 06/07/2017

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: Polioptila californica californica

Common Name: Coastal California Gnatcatcher

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 3 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Melanie Dics

Address: PO Box 1333 Black Canyon City AZ 85324

E-mail Address: redspottedpurple@aol.com

Phone: (623) 308-2455

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses 3 # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

The site is located north of Highway 60, east of Armstrong Road, west of Rubidoux Blvd, and south of 7th Street.

County: Riverside Landowner / Mgr.: Private

Quad Name: Fontana Elevation: 1132 ft, 1464 ft

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin 60CSX

DATUM: NAD27 ☐ NAD83 ☑ WGS84 ☐ Horizontal Accuracy 9 feet meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑

Coordinates:

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*

Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Two California Gnatcatchers were observed on 06/06/2017 on a ridge line. They stopped briefly on the ridge, vocalized several times, and flew to the northeast where they were lost on the steep east-facing slope. One individual was identified as a juvenile or female (lacked the black cap); the other individual could not be acquired with binoculars before flying out of view. A second California Gnatcatcher sighting was made on 06/07/2017 when an individual (juvenile or female) vocalized once and moved quickly through the surey area toward the west. The habitats in both of these locations are dominated by non-native plants (Brassica tournefortii, Hirschfeldia incana, Bromus diandrus, Bromus rubens, etc) with scattered Encelia farinosa and small, sparse Artemisia californica. Given the behavior of the Gnatcatchers moving rapidly through the area, it seems likely the individuals were dispersing juveniles.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use: Immediate use: disturbed open space; surrounding use: disturbed open space, residential

Visible disturbances: ORV and pedestrian traffic, non-native plants, homeless camps, dumping

Threats: potential development; non-native plants, ORV

Comments: observations were made incidental to conducting other surveys

Determination: *(check one or more, and fill in blanks)*

☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: Personal experience; I am permitted to conduct surveys for California Gnatcatcher and have identified the

Photographs: *(check one or more)* Slide Print Digital

Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☐
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☐ no ☐

CDFW/BDB/1747 Rev. 4/26/13

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

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Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/07/2014

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Aimophila ruficeps canescens*

Common Name: Southern California rufous-crowned sparrow

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea

Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA

E-mail Address: chrysina@hotmail.com

Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown

Quad Name: Fontana Elevation: 1487 ft.

T 1S R 4E Sec 4, NW ¼ of NE ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS

T____ R____ Sec____, ____ ¼ of ____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____

DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑

Coordinates: 34.032723 N, 117.404135 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub / mixed chaparral
RCSP was observed perched within a patch of California buckwheat (Eriogonum fasciculatum), with patches of chamise (Adenostoma fasciculatum and black sage (Salvia mellifera) nearby.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential developments W and E, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 8/18/09

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/06/2016

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Aimophila ruficeps canescens*

Common Name: Southern California rufous-crowned sparrow

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description **(please attach map AND/OR fill out your choice of coordinates, below)**

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1360 ft.
T 1S R 4E Sec 4, NW ¼ of NE ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.032270 N, 117.405278 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub / mixed chaparral
RCSP was observed perched within a patch of California buckwheat (Eriogonum fasciculatum) and brittlebush (Encelia farinosa), with patches of chamise (Adenostoma fasciculatum) nearby.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor
Immediate AND surrounding land use: Open space
Visible disturbances: unimproved roads/residential developments W and E, off-road vehicle activity
Threats: unknown
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 06/15/2014

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Lepus californicus*

Common Name: Black-tailed Jackrabbit

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☑ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description **(please attach map AND/OR fill out your choice of coordinates, below)**

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1084 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of _____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑
Coordinates: 34.027385 N, 117.413317 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub
BTJA was observed running along unimproved road/trail.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 8/98

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 07/19/2014

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Lepus californicus*

Common Name: Black-tailed Jackrabbit

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0 # adults 0 # juveniles 0 # larvae 0 # egg masses 0 # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 998 ft.
T 1S R 4E Sec 9, SE ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of _____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑
Coordinates: 34.012518 N, 117.412604 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub
BTJA was observed running NE in RSS

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential developments S, W and E, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*

☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital

Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 8/18/99

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 06/30/2016

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Lepus californicus*

Common Name: Black-tailed Jackrabbit

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description **(please attach map AND/OR fill out your choice of coordinates, below)**

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1125 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.025034 N, 117.404338 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub with brittlebush (Encelia farinosa) dominant
BTJA was observed running along unimproved road/trail.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1416 9th Street, Suite 1266
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

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Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 04/27/2018

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Lepus californicus bennettii*

Common Name: Black-tailed jackrabbit

Species Found? ○ Yes ○ No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? ○ Yes ○ No

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ No ☐ Unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea / L&L Environmental
Address: 700 East Redlands Blvd #U351
Redlands, CA 92373
E-mail Address: cwakeman@llenviroinc.com
Phone: 909.335.9897

Plant Information
Phenology:
_____ % vegetative _____ % flowering _____ % fruiting

Animal Information
1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown
☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ lek ☐ other

Location Description *(please attach map AND/OR fill out your choice of coordinates, below)*

County: Riverside Landowner / Mgr: Private
Quad Name: Fontana Elevation: 1145'
T___ R___ Sec___, ___1/4 of ___ 1/4, Meridian: H ○ M ○ S ○ Source of Coordinates (GPS, topo. map & type): _____
T___ R___ Sec___, ___1/4 of ___ 1/4, Meridian: H ○ M ○ S ○ GPS Make & Model: _____
DATUM: NAD27 ○ NAD83 ○ WGS84 ◉ Horizontal Accuracy: _____ meters/feet
Coordinate System: UTM Zone 10 ○ UTM Zone 11 ○ *OR* Geographic (Latitude & Longitude) ◉
Coordinates: 34.022570 N, 117.405073 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ○ Excellent ○ Good ○ Fair ○ Poor
Immediate AND surrounding land use: _____
Visible disturbances: _____
Threats: planned development
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☒ Other: identified by experienced field biologist

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? ○ yes ○ no

CDFW/BDB/1747 Rev. 7/15/2015

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California Dept. of Fish & Wildlife
1416 9th Street, Suite 1266
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

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Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 05/03/2018

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Lepus californicus bennettii*

Common Name: Black-tailed jackrabbit

Species Found? ○ Yes ○ No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? ○ Yes ○ No

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ No ☐ Unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea / L&L Environmental
Address: 700 East Redlands Blvd #U351
Redlands, CA 92373
E-mail Address: cwakeman@llenviroinc.com
Phone: 909.335.9897

Plant Information
Phenology:
_____ % vegetative _____ % flowering _____ % fruiting

Animal Information
1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown
☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ lek ☐ other

Location Description *(please attach map AND/OR fill out your choice of coordinates, below)*

County: Riverside Landowner / Mgr: Private
Quad Name: Fontana Elevation: 1116'
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ Source of Coordinates (GPS, topo. map & type): _____
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ GPS Make & Model: _____
DATUM: NAD27 ○ NAD83 ○ WGS84 ◉ Horizontal Accuracy: _____ meters/feet
Coordinate System: UTM Zone 10 ○ UTM Zone 11 ○ *OR* Geographic (Latitude & Longitude) ◉
Coordinates: 34.032485 N, 117.411073 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ○ Excellent ○ Good ○ Fair ○ Poor
Immediate AND surrounding land use: _____
Visible disturbances: _____
Threats: planned development
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☒ Other: identified by experienced field biologist

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? ○ yes ○ no

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Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 06/02/2016

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Source Code _____ Quad Code _____
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EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Aspidoscelis hyperythrus beldingi*

Common Name: Orange-throated Whiptail

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 60 % vegetative 40 % flowering 10 % fruiting

Animal Information

0 # adults 0 # juveniles 0 # larvae 0 # egg masses 0 # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 972 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.010629 N, 117.404146 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub w/Brittlebush (Encelia farinosa) dominant
OTW was observed on unimproved transmission line road.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
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California Dept. of Fish & Wildlife
1416 9th Street, Suite 1266
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

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Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/09/2018

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Aspidoscelis hyperythra*

Common Name: Orange-throated whiptail

Species Found? ○ Yes ○ No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? ○ Yes ○ No

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ No ☐ Unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea / L&L Environmental
Address: 700 East Redlands Blvd #U351
Redlands, CA 92373
E-mail Address: cwakeman@llenviroinc.com
Phone: 909.335.9897

Plant Information
Phenology:
_____ % vegetative _____ % flowering _____ % fruiting

Animal Information
1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown
☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ lek ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr: Private
Quad Name: Fontana Elevation: 1028'
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ Source of Coordinates (GPS, topo. map & type): _____
T___ R___ Sec___, ___¼ of ___ ¼, Meridian: H ○ M ○ S ○ GPS Make & Model: _____
DATUM: NAD27 ○ NAD83 ○ WGS84 ◉ Horizontal Accuracy: _____ meters/feet
Coordinate System: UTM Zone 10 ○ UTM Zone 11 ○ ***OR*** Geographic (Latitude & Longitude) ◉
Coordinates: 34.012515 N, 117.412869 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ○ Excellent ○ Good ○ Fair ○ Poor
Immediate AND surrounding land use: _____
Visible disturbances: _____
Threats: planned development
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☒ Other: identified by experienced field biologist

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? ○ yes ○ no

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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 07/12/2015

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Crotalus ruber*

Common Name: Red Diamond Rattlesnake

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 80 % vegetative 20 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1054 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T___ R___ Sec ___, ___ ¼ of ___ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑
Coordinates: 34.022734 N, 117.412632 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub / disturbed habitat near old quarry site
RDR was observed on an unimproved road.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☐
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

Mail to:
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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 07/12/2016

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Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

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California Native Species Field Survey Form

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Scientific Name: *Crotalus ruber*

Common Name: Red Diamond Rattlesnake

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea
Address: L&L Environmental, Inc.
700 East Redlands Blvd., Suite U, PMB#351, Redlands, CA
E-mail Address: chrysina@hotmail.com
Phone: (951) 681-4929

Plant Information

Phenology: 80 % vegetative 20 % flowering 10 % fruiting

Animal Information

0	0	0	0	0
# adults	# juveniles	# larvae	# egg masses	# unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Riverside Landowner / Mgr.: Unknown
Quad Name: Fontana Elevation: 1057 ft.
T 1S R 4E Sec 4, SW ¼ of NW ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☑ Horizontal Accuracy 12m meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: 34.027838 N, 117.413768 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Riversidean sage scrub / disturbed habitat near residential neighborhood
RDR was observed on unconsolidated soils near unimproved road.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use: Open space

Visible disturbances: unimproved roads/residential development just west, off-road vehicle activity

Threats: unknown

Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☑ Other: extensive field experience in ID of species

Photographs: *(check one or more)* Slide Print Digital
Plant / animal ☐ ☐ ☑
Habitat ☐ ☐ ☑
Diagnostic feature ☐ ☐ ☐

May we obtain duplicates at our expense? yes ☑ no ☐

DFG/BDB/1747 Rev. 6/16/09

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California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

Date of Field Work (mm/dd/yyyy): 03/26/2017

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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

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California Native Species Field Survey Form

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Scientific Name: Crotalus ruber

Common Name: Red Diamond Rattlesnake

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☑ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Melanie Dicus, John Dicus

Address: PO Box 1333 Black Canyon City, AZ 85324

E-mail Address: redspottedpurple@aol.com

Phone: (623) 308-2455

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

The site is located between Armstrong Road and Rubidoux Boulvard north of Highway 60 and south of 7th Street.

County: Riverside Landowner / Mgr.: Private

Quad Name: Fontana Elevation: 1519 feet

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin 60CSx

DATUM: **NAD27** ☐ **NAD83** ☑ **WGS84** ☐ Horizontal Accuracy 9 feet meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☐

Coordinates: 34.020217° -117.405024°

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope.*

Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

1 adult observed on rocky granitic ridge line dominated by non-native plants (mustards, grasses) with scattered Encelia farinosa.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use: Immediate use: disturbed open space; surrounding use: disturbed open space, residential

Visible disturbances: non-native plants, ORV and pedestrian traffic, dumping, homeless camps

Threats: ORV, non-native plants, potential development

Comments:

Determination: *(check one or more, and fill in blanks)*

- ☐ Keyed (cite reference): _____
- ☐ Compared with specimen housed at: _____
- ☐ Compared with photo / drawing in: _____
- ☐ By another person (name): _____
- ☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

CDFW/BDB/1747 Rev. 4/26/13

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California Natural Diversity Database
California Dept. of Fish & Wildlife
1416 9th Street, Suite 1266
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

Date of Field Work (mm/dd/yyyy): 09/04/2018

For Office Use Only
Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Crotalus ruber*

Common Name: Red diamond rattlesnake

Species Found? ○ Yes ○ No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? ○ Yes ○ No

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ No ☐ Unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Guy Bruyea / L&L Environmental
Address: 700 East Redlands Blvd #U351
Redlands, CA 92373
E-mail Address: cwakeman@llenviroinc.com
Phone: 909.335.9897

Plant Information
Phenology:
_____ % vegetative _____ % flowering _____ % fruiting

Animal Information
1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown
☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ lek ☐ other

Location Description *(please attach map AND/OR fill out your choice of coordinates, below)*

County: Riverside Landowner / Mgr: Private
Quad Name: Fontana Elevation: 1052
T___ R___ Sec___, ___1/4 of ___ 1/4, Meridian: H ○ M ○ S ○ Source of Coordinates (GPS, topo. map & type): _____
T___ R___ Sec___, ___1/4 of ___ 1/4, Meridian: H ○ M ○ S ○ GPS Make & Model: _____
DATUM: NAD27 ○ NAD83 ○ WGS84 ◉ Horizontal Accuracy: _____ meters/feet
Coordinate System: UTM Zone 10 ○ UTM Zone 11 ○ *OR* Geographic (Latitude & Longitude) ◉
Coordinates: 34.024085 N, 117.412988 W

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna).*

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ○ Excellent ○ Good ○ Fair ○ Poor
Immediate AND surrounding land use: _____
Visible disturbances: _____
Threats: planned development
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☒ Other: identified by experienced field biologist

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? ○ yes ○ no

CDFW/BDB/1747 Rev. 7/15/2015

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDB@wildlife.ca.gov

Date of Field Work (mm/dd/yyyy): 06/06/2017

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Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

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California Native Species Field Survey Form

Send Form

Scientific Name: Calochortus plummerae

Common Name: Plummer's mariposa-lily

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 4 Subsequent Visit? ☐ yes ☐ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☑ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Melanie Dicus, John Dicus

Address: P.O. Box 1333 Black Canyon City, AZ 85324

E-mail Address: redspottedpurple@aol.com

Phone: (623) 308-2455

Plant Information

Phenology: 50 % vegetative 25 % flowering 25 % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ wintering ☐ breeding ☐ nesting ☐ rookery ☐ burrow site ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

Site is located between Armstrong Road and Rubidoux Boulevard just north of Highway 60 and south of 7th Street

County: Riverside Landowner / Mgr.: Private

Quad Name: Fontana Elevation: 1205 feet

T____ R____ Sec ____, ____ ¼ of _____ ¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS

T____ R____ Sec ____, ____ ¼ of _____ ¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin 60CSX

DATUM: **NAD27** ☐ **NAD83** ☑ **WGS84** ☐ Horizontal Accuracy 9 feet meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑

Coordinates: 34.017945°, -117.414515°; 7-foot radius

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*

Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

The lilies were observed on a rocky, southwest-facing slope dominated by non-native plants. Native shrubs were sparse and included Encelia farinosa, Artemisia californica, and Eriogonum fasciculatum; non-native species included Schismus barbatus, Hirschfeldia incana, Brassica tournefortii, with Bromus rubens and Centaurea melitensis.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor

Immediate AND surrounding land use: Immediate use: disturbed open space, ORV and pedestrian recreation, homelss camps; Surrounding

Visible disturbances: Dirt roads, ORV and pedestrian activity, dumping, homeless camps

Threats: Non-native/invasive plants, ORV and pedestrian disturbance; possible development

Comments: Much of the open space surrounding this location is highly disturbed by ORV activity and non-native annual plants, including Brassica tournefortii, Hirschfeldia incana, Sisymbrium erysimoides, S. irio, S. orientale, Bromus diandrus and rubens, Schismus barbatus, Centaurea melitensis, etc. Within several hundred acres of survey area, only 4 Calochortus plummerae were observed.

Determination: *(check one or more, and fill in blanks)*

☑ Keyed (cite reference): TJM 2
☐ Compared with specimen housed at: _____
☑ Compared with photo / drawing in: Santa Ana Wildflowers, CalPhotos
☐ By another person (name): _____
☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

CDFW/BDB/1747 Rev. 4/26/13



(Aerial obtained from Google Earth, March 2023)

Rio Vista Project
Riverside County, California

Delhi Sands Flower-Loving Fly Habitat

Table 12. Potentials for occurrence.

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
PLANTS				
Abronia villosa var. *aurita* Chaparral sand-verbena	Annual herb. Sandy soils in chaparral, coastal scrub, desert dunes at 75-1600m elevation. Southern CA, Arizona, Baja.	(Jan)Mar-Sep	Fed: None Calif: S2 CRPR: 1B.1 BLM: S USFS: S	Absent (Survey)
Acanthoscyphus parishii var. parishii Parish's oxytheca	Annual herb. Sandy or gravelly soils in chaparral, lower montane coniferous forest at 1220-2600m elevation. LA, San Bernardino, Ventura Cos. Not tracked in CNDDB.	Jun-Sep	Fed: None Calif: S3S4 CRPR: 4.2	Absent (below elevation range, no records in Riverside County, survey results)
Ambrosia monogyra Singlewhorl burrobrush	Perennial shrub. Sandy soils in chaparral and Sonoran desert scrub at 10-500m elevation. Riverside, San Bernardino, and San Diego Cos., SW US, and Mexico.	Aug - Nov	Fed: None Calif: S2 CRPR: 2B.2	Absent (poor habitat, survey results)
Ambrosia pumila San Diego ambrosia	Perennial rhizomatous herb. Sandy loam or clay soils, often in disturbed areas, sometimes alkaline. Chaparral, coastal scrub, valley and foothill grassland, and vernal pools at 20-487m elevation. Riverside, San Diego Co., Baja.	Apr-Oct	Fed: END Calif: S1 CRPR: 1B.1 MSHCP: AC b	Absent (No habitat, margin of range)
Arctostaphylos glandulosa ssp. gabrielensis San Gabriel manzanita	Perennial evergreen shrub. Rocky areas in chaparral at 595-1500m elevation. LA, Santa Barbara, San Bernardino Cos.	Mar	Fed: None Cal: S3 CRPR: 1B.2 BLM: S USFS: S	Absent (Survey and range)
Arenaria paludicola Marsh sandwort	Perennial stoloniferous herb. Sandy soils and openings in freshwater or brackish marshes and swamps at 3-170m elevation. LA, San Bernardino, Santa Cruz, San Francisco, San Luis Obispo Co. and Sonora Mexico, Washington state.	May-Aug	Fed: END Ca: END, S1 CRPR: 1B.1	Absent (No habitat)
Asplenium vespertinum Western spleenwort	Perennial rhizomatous fern. Rocky soils and moist, shady areas in chaparral, cismontane woodland, coastal scrub at 180-1000m elevation. Southern CA and Baja. Not tracked in CNDDB.	Feb-Jun	Fed: None Calif: S4 CRPR: 4.2	Low (limited or no habitat, survey results)
Astragalus hornii var. hornii Horn's milk-vetch	Annual herb. Alkaline soils along lake margins, meadows and seeps and playas at 60-850m elevation. San Bernardino, Inyo, Kern, Tulare(?) Co and Nevada. San Joaquin Valley, South Coast, Western Transverse Ranges, W edge of the Mojave Desert.	May-Oct	Fed: None Calif: S1 CRPR: 1B.1 BLM: S	Absent (No habitat)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Berberis nevinii Nevin's barberry	Perennial evergreen shrub. Sandy or gravelly soils in chaparral, coastal scrub, cismontane woodland, riparian scrub at 70-825m elevation. Scattered localities in LA, San Bernardino, Riverside, & San Diego Co.	Mar-Jun can ID all year	Fed: END Calif: END CRPR: 1B.1 MSHCP: AC d	Absent (Survey)
Brodiaea filifolia Thread-leaved brodiaea	Perennial bulbiferous herb. Often on clay soils in chaparral openings, cismontane woodland, coastal scrub, playas, valley and foothill grassland, and vernal pools at 25-1120m elevation. LA, Orange, Riverside, San Bernardino, and San Diego Co; scattered in Southern CA foothills & valleys.	Mar-Jun	Fed: THR Calif: END, S2 CRPR: 1B.1 MSHCP: AC d	Low (No or limited habitat; observed on adjacent site)
Calochortus catalinae Catalina mariposa-lily	Perennial bulbiferous herb. Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland at 15-700m elevation. LA, Orange, Santa Barbara, San Bernardino, San Diego, Ventura Co, some Channel Islands. Not tracked in CNDDB.	(Feb)Mar-Jun	Fed: None Calif: S3S4 CRPR: 4.2	Low (potentially suitable habitat, not detected during surveys, no records within 5 mi.)
Calochortus palmeri var. palmeri Palmer's mariposa-lily	Perennial bulbiferous herb. Mesic soils in chaparral, lower montane coniferous forest, meadows and seeps at 710-2390m elevation. Kern, LA, Riverside, Santa Barbara, San Bernardino, San Luis Obispo, Ventura Co.	Apr-Jul	Fed: None Calif: S2 CRPR: 1B.2 BLM: S USFS: S	Absent (Below elev. range, no suitable habitat, survey results)
Calochortus plummerae Plummer's mariposa-lily	Perennial bulbiferous herb. Granitic rocky soils in chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, valley and foothill grassland at 100-1700m elevation. LA, Orange, Riverside, San Bernardino, Ventura Co.	May-Jul	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Occurs
Carex comosa Bristly sedge	Perennial rhizomatous herb. Coastal prairie, marshes and swamps (lake margins), valley and foothill grassland at 0-625m elevation.	May-Sep	Fed: None Calif: S2 CRPR: 2B.1	Absent (No habitat)
Castilleja lasiorhyncha San Bernardino Mountain's owl's-clover	Hemiparasitic annual herb. Mesic areas in chaparral, montane meadows, pebble plains, riparian woodland, upper montane coniferous forest at 1300-2390m elevation. Moist edges of springs/seeps on clay soil, wet meadows, openings in coniferous forest. Riverside, San Diego, San Bernardino Co.; San Bernardino Mts, San Jacinto Mts.	May-Aug	Fed: None Calif: S2? CRPR: 1B.2 USFS: S	Absent (No habitat)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Centromadia pungens ssp. *laevis* Smooth tarplant	Annual herb. Alkaline soils in chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grassland at 0-1170m elevation. Also fallow fields, drainage ditches; mainly in SW Riverside Co., a few sites in interior valleys of LA, San Bernardino, San Diego Co.	Apr-Sep	Fed: None Calif: S2 CRPR: 1B.1 MSHCP: AC d	Absent (No habitat)
Chloropyron maritimum ssp. maritimum Salt marsh bird's-beak	Hemiparasitic annual herb. Coastal salt marsh and swamp and coastal dunes. Limited to the higher zones of the salt marsh habitat. 0-30m elevation. Central and Southern CA, Baja.	May-Oct(Nov)	Fed: END Calif: END, S1 CRPR: 1B.2	Absent (Range; no habitat)
Chorizanthe leptotheca Peninsular spineflower	Annual herb. Granitic soils and alluvial fans in chaparral, coastal scrub, lower montane coniferous forest at 300-1900m elevation. Riverside, San Bernardino, San Diego Co., Baja. Not tracked in the CNDDB.	May-Aug	Fed: None Calif: S3 CRPR: 4.2 MSHCP: AC	Low (no or limited suitable soils, not found during surveys)
Chorizanthe parryi var. *parryi* Parry's spineflower	Annual herb. Sandy or rocky soils and openings in chaparral, cismontane woodland, coastal scrub, valley and foothill grassland at 275-1220m elev. LA, Riverside, San Bernardino Co.	Apr-Jun	Fed: None Calif: S2 CRPR: 1B.1 BLM: S USFS: S MSHCP: AC	Low (Surveys)
Chorizanthe xanti var. *leucotheca* White-bracted spineflower	Annual herb. Sandy or gravelly soil in coastal scrub (alluvial fans), Mojavean desert scrub, pinyon and juniper woodlands at 300-1300m elevation. LA, Riverside, San Bernardino, San Diego Co.	Apr-Jun	Fed: None Calif: S3 CRPR: 1B.2 BLM: S USFS: S	Absent (No habitat)
Cladium californicum California saw-grass	Perennial rhizomatous herb. Meadows and seeps, marshes, swamps, alkaline or freshwater at 60-1600m elevation. LA, Inyo, Riverside, Santa Barbara, San Bernardino, San Luis Obispo Co, SW US. Known from fewer than 20 locations in CA. Presumed extirpated from LA, San Bernardino Co.	Jun-Sep	Fed: None Calif: S2 CRPR: 2B.2 USFS: S	Absent (No habitat)
Claytonia peirsonii ssp. peirsonii *(C. lanceolata* var. *peirsonii)* Peirson's spring beauty	Perennial herb. Scree slopes in subalpine coniferous forest, upper montane coniferous forest at 1510-2745m elevation. Known only from San Gabriel and San Bernardino Mts.	(Mar)May-Jun	Fed: None Calif: S2 CRPR: 1B.2 USFS: S	Absent (No habitat, elevation)
Clinopodium chandleri San Miguel savory	Perennial shrub. Rocky, gabbroic, or metavolcanic soils in chaparral, cismontane woodlands, coastal scrub, riparian woodland, valley and foothill grassland at 120-1075m elevation. Orange, Riverside, San Diego Co., Baja.	Mar-Jul	Fed: None Calif: S2 CRPR: 1B.2 BLM: S USFS: S MSHCP: AC b	Absent (margin of geographic range, Survey results)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Cuscuta obtusiflora var. glandulosa Peruvian dodder	Annual parasitic vine. Freshwater marshes & swamps at 15-280m elevation. Scattered locations in No, Central, and Southern CA, various US states and Baja. Presumed extirpated from San Bernardino Co.	Jul-Oct	Fed: None Calif: SH CRPR: 2B.2	Absent (No habitat)
Cylindropuntia californica var. californica Snake cholla	Perennial stem succulent (cactus). Chaparral, coastal scrub at 30-150m elevation. San Diego, Riverside Co., Baja.	Apr-May	Fed: None Calif: S1 CRPR: 1B.1	Absent (above elevation range, conspicuous plant not observed during surveys)
Deinandra (Hemizonia) paniculata Paniculate tarplant	Annual herb. Usually vernally mesic areas, sometimes sandy. Coastal scrub, valley and foothill grassland, vernal pools at 25-940m elevation. Orange, Riverside, Santa Barbara, San Bernardino, San Diego, San Luis Obispo Co., Baja. Not tracked in the CNDDB.	(Mar) Apr-Nov	Fed: None Calif: S4 CRPR: 4.2	Low (no or limited suitable habitat, not observed during surveys)
Dodecahema leptoceras Slender-horned spineflower	Annual herb. Open, sandy alluvial benches in valleys & canyons. Chaparral, coastal scrub, alluvial scrub, cismontane woodland at 200-760m elevation. LA, Riverside, San Bernardino Co. San Fernando Valley, Santa Ana River Valley, W Riverside Co.	Apr-Jun	Fed: END Calif: END, S1 CRPR: 1B.1 MSHCP: AC b	Absent (limited habitat, survey results)
Dudleya multicaulis Many-stemmed dudleya	Perennial herb. Often on clay soils in chaparral, coastal scrub, valley and foothill grassland at 15-790m elevation. LA, Orange, Riverside, San Bernardino, San Diego Co.	Apr-Jul	Fed: None Calif: S2 CRPR: 1B.2 BLM: S USFS: S MSHCP: AC b	Absent (poor habitat, survey results
Eriastrum densifolium ssp. *sanctorum* Santa Ana River woollystar	Perennial herb. Sandy or gravelly soils in chaparral, coastal scrub (alluvial fans and plains) at 91-610m elevation. Orange, Riverside, San Bernardino Co., endemic to Santa Ana River watershed.	Apr-Sep	Fed: END CA: END, S1 CRPR: 1B.1 MSHCP: AC	Absent (No habitat)
Eriogonum microthecum var. johnstonii Johnstons' buckwheat	Perennial deciduous shrub. Rocky soils in subalpine coniferous forest, upper montane coniferous forest at 1829-2926m elevation. LA and San Bernardino Co., Slopes and ridges on granite or limestone, typically among rocks. San Gabriel & San Bernardino Mts.	Jul-Sep	Fed: None CA: S2 CRPR: 1B.3 USFS: S	Absent (No habitat, elevation)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Eriogonum umbellatum var. minus Alpine sulfur-flowered buckwheat	Perennial deciduous shrub. Rocky soils in subalpine coniferous forest, upper montane coniferous forest at 1829-2926m elevation. LA and San Bernardino Co., Slopes and ridges on granite or limestone, typically among rocks. San Gabriel & San Bernardino Mts.	Jul-Sep	Fed: None CA: S4 CRPR: 4.3	Absent (no suitable habitat, outside geographic and elevation range)
Fimbristylis thermalis Hot springs fimbristylis	Perennial rhizomatous herb. Found in meadows & seeps (alkaline, near hot springs) at 110-1340m elevation. Inyo, Kern, LA, Mono, San Bernardino Co.	Jul-Sep	Fed: None Calif: S1S2 CRPR: 2B.2	Absent (No habitat)
Frasera neglecta Pine green-gentian	Perennial herb. Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest at 1400-2500m elevation. Kern, LA, Santa Barbara, San Bernardino, Ventura Co. Not tracked in CNDDB.	May-Jul	Fed: None Calif: S4 CRPR: 4.3	Absent (no suitable habitat, outside geographic and elevation range)
Galium angustifolium ssp. gabrielense San Antonio Canyon bedstraw	Perennial herb. Granitic, sandy, or rocky soils in chaparral, lower montane coniferous forest at 1200-2650m elevation. LA and San Bernardino Co. Not tracked in CNDDB.	Apr-Aug	Fed: None Calif: S3 CRPR: 4.3	Absent (well below elevation range, not observed during surveys)
Galium californicum ssp. primum Alvin Meadow bedstraw	Perennial herb. Granitic, sandy soil in chaparral, lower montane coniferous forest at 1350-1700m elevation. Riverside, San Bernardino Co.	May-Jul	Fed: None Calif: S2 CRPR: 1B.2 BLM: S USFS: S MSHCP: NAC f	Absent (No habitat, well below elev. range)
Galium johnstonii Johnston's bedstraw	Perennial herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland, riparian woodland at 1220-2300m elevation. LA, Riverside, San Bernardino, San Diego Co. Not tracked in the CNDDB.	Jun-Jul	Fed: None Calif: S4 CRPR: 4.3	Absent (well below elevation range, not observed during surveys)
Helianthus nuttallii ssp. parishii Los Angeles sunflower	Perennial rhizomatous herb. Coastal salt and freshwater marshes and swamps at 10-1525m elevation. LA, Orange, San Bernardino Co. Last seen in 1937, presumed extinct.	Aug-Oct	Fed: None Calif: SX CRPR: 1A	Absent (No habitat)
Heuchera caespitosa Urn-flowered alumroot	Perennial rhizomatous herb. Rocky soils in cismontane woodland, lower montane coniferous forest, montane riparian forest, upper montane coniferous forest at 1155-2650m elevation. Kern, LA, San Bernardino, Ventura Co. Not tracked in CNDDB.	May-Aug	Fed: None Calif: S3 CRPR: 4.3 USFS: S	Absent (no suitable habitat, well below elevation range)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Horkelia cuneata ssp *puberula* Mesa horkelia	Perennial herb. Sandy or gravelly soils in maritime chaparral, cismontane woodland, coastal scrub at 70-810m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, San Luis Obispo, Ventura Co.	Feb-Jul(Sep)	Fed: None Calif: S1 CRPR: 1B.1 USFS: S	Moderate (suitable habitat on steep slopes, historic record)
Imperata brevifolia California satintail	Perennial rhizomatous herb. Mesic areas in chaparral, coastal scrub, Mojavean desert scrub, meadows and seeps (often alkali), riparian scrub at 0-1215m elevation. Scattered location throughout CA, SW US, Baja.	Sep-May	Fed: None Calif: S3 CRPR: 2B.1 USFS: S	Absent (No habitat)
Juglans californica Southern California black walnut	Perennial deciduous tree. Alluvial soils in chaparral, cismontane woodland, coastal scrub, riparian woodland at 50-900m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, Ventura Co.	Mar-Aug	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Absent (conspicuous tree not observed during surveys)
Juncus duranii Duran's rush	Perennial rhizomatous herb. Mesic areas in lower montane coniferous forest, meadows and seeps, upper montane coniferous forest at 1769-2804m elevation. LA, Riverside, San Bernardino Co. Not tracked in CNDDB.	Jul-Aug	Fed: None Calif: S3 CRPR: 4.3	Absent (no suitable habitat, well below elevation range)
Lasthenia glabrata ssp. *coulteri* Coulter's goldfields	Annual herb. Coastal salt marshes and swamps, playas, vernal pools at 1-1220m elevation. Scattered locations in CA, Baja.	Feb-Jun	Fed: None Calif: S2 CRPR: 1B.1 MSHCP: AC d	Absent (No habitat)
Lepechinia fragrans Fragrant pitcher sage	Perennial shrub. Rocky slopes, ridgetops, dry canyons in chaparral at 20-1310m elevation. LA, San Bernardino, Ventura Co, some Channel Islands. Not tracked in CNDDB.	Mar-Oct	Fed: None Calif: S3 CRPR: 4.2 USFS: S	Low (potentially suitable habitat, no records in Riverside County, not observed during surveys)
Lepidium virginicum var. *robinsonii* Robinson's pepper-grass	Annual herb. Chaparral, coastal scrub at 1-885m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, Ventura Co., Santa Cruz Island.	Jan-Jul	Fed: None Calif: S3 CRPR: 4.3	Moderate (suitable habitat on steep slopes)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Lilium humboldtii ssp. ocellatum Ocellated Humboldt lily	Perennial bulbiferous herb. Openings in chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland at 30-1800m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, Ventura Co, some Channel Islands. Lower stream benches in riparian corridors in lower montane coniferous forest and coastal chaparral or shaded, dry slopes beneath a dense oak or conifer canopy.	Mar-Jul(Aug)	Fed: None Calif: S4? CRPR: 4.2 MSHCP: NAC f	Low (marginal or no suitable habitat, not observed during surveys)
Lilium parryi Lemon lily	Perennial bulbiferous herb. Mesic soils in upper and lower montane coniferous forest, riparian forest, meadows and seeps at 1220-2745m elevation. LA, Riverside, San Bernardino, San Diego Co, Arizona, Sonora Mex.	Jul-Aug	Fed: None Calif: S3 CRPR: 1B.2 USFS: S MSHCP: NAC f	Absent (No habitat, well below elev. range)
Linanthus concinnus San Gabriel linanthus	Annual herb. Rocky soils in openings in chaparral, upper and lower montane coniferous forest at 1520-2800m elevation. LA and San Bernardino Co.	Apr-Jul	Fed: None Calif: S2 CRPR: 1B.2 USFS: S	Absent (No habitat, well below elev. range)
Lycium parishii Parish's desert-thorn	Perennial shrub. Arid slopes & sand flats in coastal scrub and Sonoran desert scrub at 135-1000m elevation. Imperial, Riverside, San Bernardino, San Diego Co., Arizona, Sonora Mexico. Presumed extirpated in San Bernardino Co.	Mar-Apr	Fed: None Calif: S1 CRPR: 2B.3	Absent (Survey, margin of current range)
Malacothamnus parishii Parish's bush-mallow	Perennial deciduous shrub. Chaparral, coastal scrub at 305-455m elevation. San Bernardino Co. Presumed extirpated.	Jun-Jul	Fed: None Calif: SX CRPR: 1A	Absent (above elev. Range, Thought extirpated, survey results)
Monardella australis ssp. jokerstii Jokerst's monardella	Perennial rhizomatous herb. Steep scree or talus slopes, alluvial benches in chaparral, lower montane coniferous forest at 1350-1750m elevation. San Bernardino Co, known only from San Gabriel Mts.	Jul-Sep	Fed: None Calif: S1? CRPR: 1B.1 USFS: S	Absent (No habitat, well below elev. Range)
Monardella pringlei Pringle's monardella	Annual herb. Sandy soil in coastal scrub at 300-400m elevation. Riverside, San Bernardino Co. Presumed extirpated.	May-Jun	Fed: None Calif: SX CRPR: 1A	Absent (Survey; may be extinct in CA)
Monardella saxicola Rock monardella	Perennial rhizomatous herb. Rocky soils, usually serpentine, in chaparral, lower montane coniferous forest, closed-cone coniferous forest at 500-1800m elevation. LA, San Bernardino Co. Not tracked in CNDDB.	Jun-Sep	Fed: None Calif: S3 CRPR: 4.2 USFS: S	Low (no or limited suitable habitat, lower edge of elevation range, not observed during surveys)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Muhlenbergia californica California muhly	Perennial rhizomatous herb. Mesic areas, seeps, and streambanks in chaparral, coastal scrub, lower montane coniferous forest at 100-2000m elevation. LA, Riverside, San Bernardino Co.	Jun-Sep	Fed: None Calif: S4 CRPR: 4.3 MSHCP: NAC e	Absent (No habitat)
Muhlenbergia utilis Aparejo grass	Perennial rhizomatous herb. Sometimes alkaline or serpentinite soils in chaparral, coastal scrub, cismontane woodland, marshes and swamps, meadows and seeps at 25-2325m elevation. San Bernardino, Inyo, Kern, Ventura, Fresno Cos. and central coast, TX, Central America.	Oct-Mar	Fed: None Calif: S2S3 CRPR: 2B.2	Low. Potentially suitable habitat, only CNDDB occurrence south of Santa Barbara is from 1916 in Upland area and extirpated.
Myosurus minimus ssp. apus Little mousetail	Annual herb. Valley and foothill grasslands, alkaline vernal pools at 20-640m elevation. Locations in northern, central, and southern CA, Oregon, Baja.	Mar-Jun	Fed: None Calif: S2 CRPR: 3.1 MSHCP: AC d	Low (no or marginal suitable habitat, not observed during surveys)
Nasturtium gambelii Gambel's water cress	Perennial rhizomatous herb. Freshwater or brackish marshes and swamps at 5-330m elevation. LA, Orange, Santa Barbara, San Bernardino, San Diego, San Luis Obispo Co. Presumed extirpated in San Bernardino Co.	Apr-Oct	Fed: END Calif: THR, S1 CRPR: 1B.1	Absent (No habitat)
Navarretia prostrata Prostrate vernal pool navarretia	Annual herb. Mesic areas in coastal scrub, valley and foothill grassland (alkaline), meadows and seeps, vernal pools at 3-1210m elevation. Locations in northern, central, and southern CA.	Apr-Jun	Fed: None Calif: S2 CRPR: 1B.2 MSHCP: AC d	Absent (No habitat)
Opuntia basilaris var. *brachyclada* Short-joint beavertail	Perennial stem succulent (cactus). Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland at 425-1800m elevation. LA, San Bernardino Co.	Apr-Jun(Aug)	Fed: None Calif: S3 CRPR: 1B.2 BLM: S USFS: S	Absent (No habitat)
Oreonana vestita Woolly mountain-parsley	Perennial herb. Gravel or talus soils in lower and upper montane and subalpine coniferous forest at 1615-3500m elevation. Kern, LA, San Bernardino Co. Endemic to San Bernardino, San Gabriel, and Scodie Mts.	Mar-Sep	Fed: None Calif: S3 CRPR: 1B.3 USFS: S	Absent (No habitat)
Phacelia mohavensis Mojave phacelia	Annual herb. Sandy or gravelly soil in cismontane woodland, lower montane coniferous forest, meadows and seeps, pinyon and juniper woodland at 1400-2500m elevation. LA, San Bernardino, Tulare, Ventura Co. Not tracked in CNDDB.	Apr-Aug	Fed: None Calif: S4 CRPR: 4.3	Absent (no suitable habitat, well below elevation range)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Phacelia stellaris Brand's star phacelia	Annual herb. Coastal dunes, coastal scrub at 1-400m elevation. Sandy openings, sandy benches, dunes, sandy washes, or floodplains. LA, Orange, Riverside, San Bernardino, San Diego Co.	Mar-Jun	Fed: None Calif: S1 CRPR: 1B.1 MSHCP: AC b	Absent (poor habitat, heavily disturbed, survey results)
Pickeringia montana var. tomentosa Woolly chaparral-pea	Evergreen shrub. Gabbroic, granitic, or clay soils in chaparral at 0-1700m elevation. LA, Riverside, Orange, San Bernardino, San Diego Co. Not tracked in CNDDB.	May-Aug	Fed: None Calif: S3S4 CRPR: 4.3	Low (potentially suitable habitat, not observed during surveys, no records within 5 mi.)
Pseudognaphalium leucocephalum White rabbit-tobacco	Perennial herb. Sandy or gravelly soils in chaparral, cismontane woodland, coastal scrub, riparian woodland at 0-2100m elevation. LA, Orange, Riverside, San Bernardino, San Diego, Ventura Co, Arizona, New Mexico, Texas, Baja and Sonora Mex.	(Jul)Aug-Nov(Dec)	Fed: None Calif: S2 CRPR: 2B.2	Low (small area of habitat, survey results
Quercus palmeri Palmer oak	Evergreen shrub. Rocky slopes and flats at 300 to 1600m elevation. CA, AZ, Baja.	Apr-May	Fed: None Calif: None CRPR: None	Occurs at NE edge (rare and unique specimen)
Ribes divaricatum var. parishii Parish's gooseberry	Perennial deciduous shrub. Riparian woodland at 65-300m elevation. LA, San Bernardino Co. Extirpated in CA.	Feb-Apr	Fed: None Calif: SX CRPR: 1A	Absent (No habitat, thought extirpated)
Romneya coulteri Coulter's matilija	Large perennial rhizomatous herb. Often in burn areas in chaparral, coastal scrub at 20-1200m elevation. LA, Orange, Riverside, San Diego Co. Not tracked in CNDDB.	Mar-Jul(Aug)	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Low (conspicuous plant not observed during surveys)
Sagittaria sanfordii Sanford's arrowhead	Emergent perennial rhizomatous herb. Shallow freshwater marshes and swamps at 0-650m elevation. Locations in northern, central, southern CA. Extirpated from Southern CA.	May-Oct(Nov)	Fed: None Calif: S3 CRPR: 1B.2 BLM: S	Absent (No habitat)
Schoenus nigricans Black bog-rush	Perennial herb. Marshes and swamps, often alkaline, at 150-2000m elevation. San Bernardino, Inyo Co, Florida, Nevada, Texas, South America.	Aug-Sep	Fed: None Calif: S2 CRPR: 2B.2 USFS: S	Absent (No habitat)
Senecio aphanactis Chaparral ragwort	Annual herb. Alkaline soils (sometimes) in chaparral, cismontane woodland, coastal scrub at 15-800m elevation. Locations in northern, central, southern CA.	Jan-Apr(May)	Fed: None Calif: S2 CRPR: 2B.2	Absent (No habitat)
Senecio astephanus San Gabriel ragwort	Perennial herb. Rocky slopes in coastal bluff scrub, chaparral at 400-1500m elevation. Kern, LA, Monterey, Santa Barbara, San Bernardino, San Diego, San Luis Obispo Co.	May-Jul	Fed: None Calif: S3 CRPR: 4.3	Low (no records within 5 mi., not observed during surveys)

Species	Growth Form Habitat and Distribution	Flowering season	Conservation Status	Potential for Occurrence
Sidalcea neomexicana Salt Spring checkerbloom	Perennial herb. Alkaline, mesic soils in chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, playas at 15-1530m elevation. Kern, LA, Orange, Riverside, San Bernardino, San Diego, Ventura Co, western US, Sonora Mex.	Mar-Jun	Fed: None Calif: S2 CRPR: 2B.2 USFS: S	Absent (Survey; No habitat)
Sphenopholis obtusata Prairie wedge grass	Perennial herb. Mesic areas in cismontane woodland, meadows and seeps at 300-2000m elevation. Locations in northern, central, southern California, throughout US, Baja and Sonora Mex.	Apr-Jul	Fed: None Calif: S2 CRPR: 2B.2	Absent (No habitat)
Streptanthus bernardinus Laguna Mountain jewelflower	Perennial herb. Chaparral, lower montane coniferous forest at 670-2500m elevation. Riverside, San Bernardino, San Diego Co.	May-Aug	Fed: None Calif: S3S4 CRPR: 4.3	Absent (Range; No habitat)
Streptanthus campestris Southern jewelflower	Perennial herb. Rocky soils in chaparral, lower montane coniferous forest, pinyon and juniper woodland at 900-2300m elevation. Imperial, Santa Barbara, Ventura, San Bernardino, Riverside, San Diego Co, Baja.	(Apr)May-Jul	Fed: None Calif: S3 CRPR: 1B.3 BLM: S USFS: S	Absent (No habitat, below elev. range)
Symphyotrichum defoliatum San Bernardino aster	Perennial rhizomatous herb. Near ditches, streams, springs in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grasslands (vernally mesic) at 2-2040m elevation. Southern and Central California.	Jul-Nov	Fed: None Calif: S2 CRPR: 1B.2 BLM: S USFS: S	Low (Survey results)
Viola pinetorum ssp. grisea Grey-leaved violet	Perennial herb. Meadows and seeps, subalpine and upper montane coniferous forest at 1500-3400m elevation. Locations in northern, central, and southern CA.	Apr-Jul	Fed: None Calif: S3 CRPR: 1B.2	Absent (Below elev. Range, no suitable hab, survey results)
References: CDFW (2021a, 2021b), CNPS (2021), Dudek (2003), RCA (2019)				

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
FISH			
Catostomus santaanae Santa Ana sucker	Small to medium permanent streams. LA & San Gabriel drainage, lower Santa Ana River.	Fed: THR Calif: SA, S1 MSHCP: AC	Absent (No habitat)
Gila orcuttii Arroyo chub	Slow –moving or backwater sections of warm/ cool streams with mud or sand substrates. LA, San Gabriel, San Luis Rey, Santa Ana & Santa Margarita Rivers and Malibu and San Juan creeks.	Fed: None Calif: SSC, S2 USFS: S MSHCP: AC	Absent (No habitat)
Oncorhynchus mykiss irideus pop. 10 Steelhead – So. California DPS	South coast flowing waters. Fed listing refers to pops from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego Co.)	Fed: END Calif: SA, S1	Absent (No habitat)
Rhinichthys osculus ssp 3 Santa Ana speckled dace	Endemic to Santa Ana and San Gabriel Riv. watersheds, historic in Big Tujunga Canyon. Santa Ana River populations in lower San Bernardino Mountain foothills & washes	Fed: None Calif: SSC, S1 USFS: S	Absent (No habitat)
AMPHIBIANS			
Batrachoseps gabrieli San Gabriel slender salamander	Lives & lays eggs in moist places on land. Found under large rocks, logs, & bark. A relict species found only in a few locations in San Gabriel Mts. & W end of San Bern. Mts. 2800-7800 ft. elev. Inhabits forested talus slopes, & shaded areas near a stream.	Fed: None Calif: SA, S2S3 USFS: S	Absent (No habitat)
Coleonyx variegatus abbotti San Diego banded gecko	Coastal and cismontane southern California. Found in granite or rocky outcrops in coastal scrub and chaparral.	Fed: None Calif: SSC, S1S2 MSHCP: AC	Moderate (Habitat present)
Rana muscosa Southern mountain yellow-legged frog	Always encountered within a few feet of water. Tadpoles may require up to 2 years to complete development	Fed: END Ca: END, WL, S1 MSHCP: AC c	Absent (No habitat)
Spea hammondii Western spadefoot	Cismontane woodland, coastal scrub, valley & foothill grassland, vernal pool. Breeds in quiet streams & vernal pools, burrows beneath sand during dry season. W CA, Central Valley to Baja California. From near sea level up to 4,500 ft elev.	Fed: None Ca: SSC, S3 BLM: S MSHCP: AC	Absent (No habitat)
REPTILES			
Anniella stebbinsi Southern California legless lizard	Various habitats, mainly shrublands, <6500 ft. elev. Coast Ranges from Bay area to N Baja CA, SW Sierra Nevada, parts of the Central Valley, Transverse & Peninsular Ranges.	Fed: None Calif: SSC, S3 USFS: S	Moderate (Habitat present)
Arizona elegans occidentalis California glossy snake	Arid scrub, rocky washes, grasslands, chaparral, often with loose or sandy soils. Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular Ranges, south to Baja California. Sea level to 7200' elev.	Fed: None Calif: SSC CNDDB: S2	High (Historic record crosses southern edge of site 1935, Suitable habitat)
Aspidoscelis hyperythra Orange-throated whiptail	Low-elevation coastal scrub, chaparral, and valley-foothill hardwood. Sandy areas, patches of rock. Southern California, west of desert, to tip of Baja California.	Fed: None Calif: WL, S2S3 USFS: S MSHCP: AC	Occurs

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Aspidoscelis tigris stejnegeri Coastal whiptail	Primarily hot, dry open areas with sparse foliage, chaparral, woodland, riparian; coastal So CA, mostly west of Peninsular Ranges and south of Transverse Ranges, north into Ventura County, below ±7000' elev. and into Baja.	Fed: None Calif: SSC, S3 MSHCP: AC	Occurs (AMEC 2006)
Charina trivergata Rosy boa	Rocky brushlands and desert. Attracted to permanent and intermittent streams. Death Valley, CA., to the tip of Baja California, and coastal southern CA to south-central Arizona. No longer considered a special status species.	Fed: None Calif: None	Occurs
Charina umbratica Southern rubber boa	Found in a few locales in San Bernardino & San Jacinto Mtn. ranges. Moist coniferous forest and woodlands from about 5000-9000 ft. elev. Fossorial, nocturnal, sometimes crepuscular. Hibernates in rock outcrops, rotting logs, or other underground refuges. Active April-October. Thick duff and downed logs important for cover. Usually found within several hundred meters of water.	Fed: None Calif: THR, S2S3 USFS: S MSHCP: NAC f	Absent (No habitat, elevation)
Crotalus ruber Red-diamond rattlesnake	Desert scrub, thorn scrub, chaparral below 4,000ft. San Bernardino County S through most of Baja California, Mexico.	Fed: None Calif: SSC, S3 USFS: S MSHCP: AC	Occurs
Diadophis punctatus ssp. modestus San Bernardino ringneck snake	Open relatively rocky areas within valley-foothill locales, mixed chaparral/annual grasslands. Prefers moist habitats. W San Diego & Riv. Cos., SW San Bern., Vent. & LA Cos., NW Baja CA.	Fed: None Calif: SA, S2? USFS: S	Moderate (Habitat present)
Emys marmorata Western pond turtle	Perennial ponds, streams, marshes, irrigation ditches. Coastal S & cent. CA, NW Baja CA, below about 4800 ft. elev. (few higher elev. pops.)	Fed: None Calif: SSC, S3 BLM: S USFS: S MSHCP: AC	Absent
Lampropeltis zonata parvirubra California mountain Kingsnake (San Bernardino pop.)	Forests & chaparral with rock outcrops or talus, often riparian. 1200-8100ft. elev. San Gabriel, San Bernardino, & San Jacinto Mts. Recent taxonomic changes, no longer considered a special status species.	Fed: None Calif: None USFS: S MSHCP: NAC f	Absent-Low (Habitat and Elevation requirement)
Phrynosoma blainvillii Coast horned lizard	Coastal sage scrub, low elevation chaparral, annual grassland, oak & riparian woodlands, coniferous forest. SW California to NW Baja California, Mexico.	Fed: None Calif: SSC, S3S4 BLM: S MSHCP: AC	Occurs (AMEC 2006)
Salvadora hexalepis virgultea Coast patch-nosed snake	Shrublands, washes, sandy flats, rocky areas; Santa Barbara county through southwest Calif., to northwest Baja Calif.	Fed: None Ca: SSC, S2S3	High (Habitat present, observed on adjacent site)
Thamnophis hammondii Two-striped garter snake	Usually in or near perennial fresh water & adjacent riparian habitat, pools in streams. SW CA & NW Baja California.	Fed: None Calif: SSC, S3S4 BLM: S USFS: S	Absent (No habitat)
BIRDS			

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Accipiter cooperii Cooper's hawk	Cismontane woodland, riparian forest, riparian woodland, upper montane coniferous forest. Forages in open areas over scrublands; California, Mexico, Central America. Nests in trees, often in dense woods. Year-round resident in most of southern California range. CNDDB only tracks nesting.	Fed: None Calif: WL, S4 MSHCP: AC	Nesting: Absent Foraging: Occurs (observed on Project site [L&L])
Accipiter striatus Sharp-shinned hawk	Ponderosa pine, black oak, riparian deciduous, mixed conifer, and Jeffrey pine habitats. Prefers riparian areas. North-facing slopes with plucking perches are critical requirements. Nests usually within 275 ft of water. Breeding range in CA poorly known, probably breeds primarily in northern half of state.	Fed: None Calif: WL, S4 MSHCP: AC	Nesting: Absent Foraging: High (observed on adjacent site)
Agelaius tricolor Tricolored blackbird	Breeds colonially in freshwater marshes, nomadic among marshes and fields in winter; almost completely endemic to Calif. Year-round resident in southern California range. CNDDB only tracks nesting.	Fed: BCC Calif: THR, SSC, S1S2 BLM: S MSHCP: AC	Absent (No habitat)
Aimophila ruficeps canescens Southern California rufous-crowned sparrow	Sparse, mixed chaparral, scrub, rocky, brushy slopes. Central California to Baja California. Year-round resident in southern California range.	Fed: None Calif: WL, S3 MSHCP: AC	Occurs
Aquila chrysaetos Golden eagle	Found in a variety of habitats from sea level to 11,500 feet, rugged open habitats preferred. Large platform nests constructed on secluded cliffs, large trees, and occasionally structures (i.e., electrical transmission towers). CNDDB tracks nesting and wintering.	Fed: BGEPA, BCC Calif: FP, WL, S3 BLM: S MSHCP: AC	Nesting: Absent Foraging: Low
Ardea alba Great egret	Brackish and freshwater marshes, estuary, riparian forest, wetland. Colonial nester in large trees. Rookery sites located near marshes, tide-flats, irrigated pastures, and margins of rivers and lakes. CNDDB only tracks nesting colonies.	Fed: none Calif: SA, S4	Occurs (probably fly over)
Artemisiospiza belli belli Bell's sage sparrow	Sage scrub and chaparral communities. Nests mainly in shrubs, also in grass, and occasionally on ground under shrub. Found in coastal sage scrub in south of range. Central Washington southward to Baja California, Mexico. Year-round resident in southern CA.	Fed: None Calif: WL, S3 MSHCP: AC	High (observed on adjacent site)
Athene cunicularia Burrowing owl	Nests in burrows, often rodent burrows, usually in grasslands. Forages in open habitat; increasingly uncomm. in S CA. Occurs through W US/Mex. Sparse in desert scrub but common around irrigated lands. CNDDB tracks burrow sites and some wintering sites.	Fed: BCC Calif: SSC, S3 MSHCP: AC c	Project site: Absent (Based on survey)
Baeolophus inornatus Oak titmouse	Open pine or mixed oak-pine forest, juniper woodland, pinyon or juniper mixed with Joshua trees. Not migratory. CNDDB only tracks nesting.	Fed: BCC Calif: SA, S4	Absent

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Buteo swainsoni Swainson's hawk	Grassland/agricultural, large trees for nesting, desert scrub with Joshua tree & Fremont cottonwood overstory, near streams & open fields. Breeds overwhelmingly in Great Basin & Central Valley of California. Seen in migration in southern California. CNDDB only tracks nesting.	Fed: BCC Calif: THR, S3 BLM: S MSHCP: AC	Nesting: Absent Foraging: Low
Calypte costae Costa's hummingbird	Desert and coastal scrub and chaparral in desert, semi-desert and mountain foothills and seasonally in mountains, adjacent open meadows and gardens. Found in NV, UT, AZ, CA and Mexico. Year-round resident in southern CA. CNDDB only tracks nesting.	Fed: BCC Calif: SA, S4	Occurs
Chamaea fasciata Wrentit	Chaparral, oak woodland, shrublands, western CA, northwestern Baja, western Oregon. Year-round resident in southern CA range. CNDDB does not track this species.	Fed: BCC Calif: None	High (multiple ebird records in vicinity)
Circus hudsonius (Circus cyaneus) Northern harrier	Open habitats with hunting perches, marshes, meadows, grasslands, pastures, croplands, lake and river edges. Nests on the ground. Breeds widely but locally in North America, various portions of CA including Central Valley, central and northern coast, northeastern CA, and southern coastal CA. Does not breed in most of southern CA range. CNDDB only tracks nesting.	Fed: None Calif: SSC, S3 MSHCP: AC	Nesting: Absent Foraging: Occurs (Based on previous survey)
Coccyzus americanus occidentalis Western yellow-billed cuckoo	Open woods, orchards, riparian willow, riparian forest and alder forests. Most of the United States (excluding the northwestern states), and into Baja California and northern Mexico.	Fed: THR, BCC Calif: END, S1 BLM: S USFS: S MSHCP: AC a	Absent (No habitat)
Coturnicops noveboracensis Yellow rail	Summer resident in eastern Sierra Nevada. Freshwater marshlands. Occurs year round in California, very local breeder in NE interior and winter visitor on the coast and Suisun Marsh region, central and southern coastal US, parts of Canada, south central Oregon.	Fed: BCC Calif: SSC, S1S2 USFS: S (Lassen and Shasta-Trinity National Forests)	Absent (No habitat)
Dryobates (Picoides) nuttallii Nuttall's woodpecker	Found in low elevation riparian and oak woodlands; rarely in conifers. Central Valley, Transverse and Peninsular Ranges, Coast Ranges north to Sonoma Co., lower portions of the Cascade Range and Sierra Nevada. Year-round resident throughout coastal mountains of CA. Not tracked in CNDDB.	Fed: BCC Calif: None	Low (no suitable habitat, multiple ebird records in vicinity of Santa Ana River)
Empidonax traillii extimus Southwestern willow flycatcher	Dense riparian forests, wet mountain meadow systems with standing water for at least part of the breeding season (May to July) & with ample numbers of willow & other associated trees & shrubs. Rare & local in S CA. SW US & N Baja California. CNDDB only tracks nesting.	Fed: END Calif: END, S1 MSHCP: AC a	Absent (No habitat)

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Eremophila alpestris actia California horned lark	Variety of open habitats with low growing vegetation or bare ground, grasslands, rangelands, "bald" hills, mtn. meadows, open coastal plains, fallow fields, alkali flats. Within coastal Sonoma Co. to San Diego Co., San Joaquin Valley & E to foothills.	Fed: None Calif: WL, S4 MSHCP: AC	High
Falco columbarius Merlin	Woodlands, grasslands, agricultural fields, and areas around livestock feed lots. Dense tree stands close to bodies of water are needed for cover. Uses a wide variety of habitats. Winter migratory bird to southern California.	Fed: None Calif: WL, S3S4 MSHCP: AC	Low (poor hab. Adj. to agriculture)
Falco peregrinus anatum American peregrine falcon	Broad array of habitats, including urban. Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site. Nest sites usually associated with water. CNDDB only tracks nesting.	Fed: Delisted, BCC Calif: Delisted, FP, S3S4 MSHCP: AC	Moderate
Icteria virens Yellow-breasted chat	Summer resident, inhabits riparian thickets of willow near watercourses, low dense riparian willow. Migrant and summer resident in CA, northern CA, central coast, eastern Central Valley, coastal southern CA, Colorado River, western US, Canada, Mexico, Central America. CNDDB only tracks nesting.	Fed: None Calif: SSC, S3 MSHCP: AC	Absent (No habitat)
Lanius ludovicianus Loggerhead shrike	Open areas where small trees, shrubs, and fences can provide suitable perches. Nests in small trees and large shrubs. Throughout much of North America. CNDDB only tracks nesting.	Fed: BCC Calif: SSC, S4 MSHCP: AC	Nesting: Mod Foraging: High (observed on adjacent site)
Laterallus jamaicensis coturniculus California black rail	Saline, brackish, and freshwater emergent wetlands. San Francisco Bay area, Sacramento-San Joaquin Delta, scattered locations on coastal southern CA, Salton Sea, lower Colorado River, scattered locations in US, Mex, Central America.	Fed: None Calif: THR, FP, S1 BLM: S	Absent (no suitable hab.)
Melanerpes lewis Lewis's woodpecker	Breeds in open forest and woodland with an open canopy and brushy understory. Requires dead trees for nest cavities. Open ponderosa pine forest, open riparian woodland, logged or burned pine forest, oak woodlands, orchards, pinyon-juniper woodland, pine and fir forest, agricultural areas. CNDDB only tracks nesting.	Fed: BCC Calif: SA, S4	Low (no suitable nesting habitat, two ebird records in vicinity of Santa Ana River)
Polioptila californica californica Coastal California gnatcatcher	Sage scrub, also chaparral, grasslands, riparian adjacent to or mixed with sage scrub. S Ventura Co. to LA, Orange, Riv., San Bern., San D. Cos into Baja CA, Mexico.	Fed: THR Calif: SSC, S2 MSHCP: AC	Occurs (Incidental obs. 2017. Likely dispersing juveniles. Observed on adjacent site)

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Selasphorus rufus Rufous hummingbird	Breeds in open or shrubby areas, forest openings, yards and parks. Sometimes forests, thickets, swamps, meadows. Elev. range 0-6000 ft. Migrating birds can be up to 12,600 ft. Wintering birds in oak, pine, and juniper woodlands. Found in Western US and Canada. Generally migrates through southern CA during pre-breeding migratory season (mid-Feb to mid-May). CNDDB only tracks nesting.	Fed: BCC Calif: SA, S1S2	Moderate (migration) (multiple ebird records in project vicinity)
Setophaga petechia Yellow Warbler	Migrant and summer resident in southern CA. Riparian, including willow, cottonwood, sycamore, alder, aspen for nesting & foraging, also conifer forest. CNDDB only tracks nesting.	Fed: BCC Calif: SSC, S3S4 MSHCP: AC	Low (Habitat)
Spinus lawrencei Lawrence's goldfinch	Summer breeder, may overwinter. Coastal side of southern and central CA, western edge of southern deserts, east side of Central Valley into northern CA, Colorado River, SW US and northern Mex. Valley foothill hardwood and hardwood-conifer, desert riparian, pinyon juniper, palm oasis, lower montane. CNDDB only tracks nesting.	Fed: BCC Calif: SA, S3S4	Nesting: Low Foraging: Occurs
Spizella atrogularis Black-chinned sparrow	Chaparral, sagebrush, arid scrublands, and brushy hillsides, rugged slopes. Sea level to 2700m elevation. Brush generally tall (1–2 m), at least moderately dense, of mixed species, and broken by rocky outcrops and scattered large shrubs or trees. Not tracked in the CNDDB.	Fed: BCC Calif: None	High (observed on adjacent site)
Spizella breweri Brewer's sparrow	Treeless shrub and desert scrub habitats. Summer resident/breeder east of Cascade-Sierra Nevada crest, mountains and higher valleys of Mojave Desert and at southern end of San Joaquin Valley. Uncommon breeder at higher elevations of San Bernardino, Ventura, Kern, and San Luis Obispo Cos. Winter range includes southern Mojave and Colorado deserts. CNDDB only tracks nesting.	Fed: BCC Calif: SA, S4	Moderate (observed on adjacent site, probably in migration)
Vireo bellii pusillus Least Bell's vireo	Riparian woodlands, bottomlands. N Mex. & Baja CA into S CA & the S mid-western US. CNDDB only tracks nesting.	Fed: END Calif: END, S2 MSHCP: AC a	Absent-Low
MAMMALS			

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Antrozous pallidus Pallid bat	Rock outcrops of shrublands, ≤ 6000' elevation; southwest North America to interior Oregon and Washington; hibernates in winter. Locally common at low elevations in grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Forages over open ground. Roosts in caves, crevices, mines, hollow trees, buildings. Very sensitive to disturbance of roosting sites.	Fed: None Calif: SSC, S3 BLM: S USFS: S	Roosting: Moderate Foraging: Moderate
Chaetodipus fallax fallax Northwestern San Diego pocket mouse	Sandy herbaceous areas, usually in association with rocks or coarse gravel, chaparral, coastal scrub, grasslands. SW CA & NW Baja California (inland to San Bernardino Valley).	Fed: None Calif: SSC, S3S4 MSHCP: AC	Moderate
Chaetodipus fallax pallidus Pallid San Diego pocket mouse	Sandy, herbaceous areas, usually in association with rocks or coarse gravel, desert wash, desert scrub, pinyon juniper, chaparral. San Diego, Riv, Imperial, LA, San Bern cos.	Fed: none Calif: SSC, S3S4	Low
Dipodomys merriami parvus San Bernardino kangaroo rat	Alluvial floodplains and adjacent upland habitats within the San Bernardino, Menifee, and San Jacinto valleys, Riversidean alluvial fan sage scrub.	Fed: END Calif: CanE, SSC, S1 MSHCP: AC c	Low
Dipodomys stephensi Stephens' kangaroo rat	Sparse, gently sloping grassland, sometimes at margins of cultivated or disturbed lands; prefers grassland dominated by forbs rather than annual grasses, prefers sparse perennial vegetation; firm soil for burrowing (not too hard or too sandy); may use abandoned gopher burrows; W Riverside Co. and adjacent San Diego Co. San Bernardino County occurrences extirpated. No critical habitat has been designated.	Fed: END Ca: THR, S2 MSHCP: AC	Low
Eumops perotis californicus Western mastiff bat	Lowlands (with rare exceptions), many open, semi-arid to arid habitats, conifer and deciduous woodlands, coastal scrub, grasslands, chaparral. Central & S CA, S AZ, NM, SW TX. Roosts in deep rock crevices, high buildings, trees, and tunnels; forages over wide area.	Fed: None Calif: SSC, S3S4 BLM: S	Roosting: Moderate Foraging: Moderate
Glaucomys oregonensis californicus San Bernardino flying squirrel	Mature mixed conifer forest (white fir, Jeffrey pine, & black oak) with large trees & snags, closed canopy, downed woody debris, & riparian areas. 4000-8500 ft. elev. San Bernardino & San Jacinto Mt. Ranges (may be extirpated in the San Jacinto Mts.).	Fed: None Calif: SSC, S1S2 USFS: S MSHCP: NAC e	Absent (No habitat)
Lasiurus blossevillii Western red bat	Cismontane woodland, lower montane coniferous forest, riparian woodland/forest. Roosts primarily in trees, 2-40 ft above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging. Migratory.	Fed: None Calif: SSC, S3	Low-Absent (No cottonwood habitat, minimal riparian)

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Lasiurus xanthinus Western yellow bat	Valley foothill riparian, desert riparian, desert wash, palm oasis. Roosts in trees, particularly palms. Forages over water and among trees. Desert regions of the SW US. Distributed in S CA, AZ, NM, & TX, into Mexico.	Fed: None Calif: SSC, S3	Low (habitat)
Lepus californicus bennettii San Diego black-tailed jackrabbit	Chaparral, coastal, or Riversidean sage scrub with adjacent open grassland. Los Angeles Co. S to San Quintin, Baja California, Mexico.	Fed: None Calif: SSC, S3S4 MSHCP: AC	Occurs (Observed)
Neotoma lepida intermedia San Diego desert woodrat	Arid shrublands, rocky outcrops, & crevices. Cismontane CA., San Luis Obispo to San Diego Co. & NW Baja California. 0-7000 ft. elev. Variety of shrub and desert habitats, primarily associated with rock outcroppings, boulders, cacti, or areas of dense undergrowth. Constructs elaborate middens of sticks and other materials.	Fed: None Calif: SSC, S3S4 MSHCP: AC	Low (Habitat but no sign)
Nyctinomops femorosaccus Pocketed free-tailed bat	Deserts & arid lowlands, pinyon juniper woodlands, desert scrub, riparian scrub, Joshua tree woodland, rocky areas with high cliffs. E Riverside & San Diego Cos. and Imperial Co., through SW US, Baja California, mainland Mexico. Roost mainly in crevices of high cliffs. Few records in So CA. Prefers rocky desert areas with high cliffs or rock outcrops. Feeds over ponds, streams, and arid desert.	Fed: None Calif: SSC, S3	Roosting: Moderate Foraging: Moderate
Onychomys torridus ramona Southern grasshopper mouse	Nocturnal, active year-round. Desert scrub, coastal scrub, mixed chaparral, sagebrush, especially scrub habitats with friable soil, prefers low to moderate shrub cover. LA through San Diego counties and northwest Baja.	Fed: None Calif: SSC, S3	Low
Ovis canadensis nelsoni Desert bighorn sheep	Desert mountains of SE California, SW US and Mex. Rocky, steep terrain, scrub and grassland.	Fed: None Calif: FP, S3 BLM: S USFS: S	Absent (Range)
Perognathus longimembris brevinasus Los Angeles pocket mouse	Nocturnal, active Apr-Aug. Annual grassland, sage scrub, alluvial sage scrub. S California from Rancho Cucamonga (W boundary), San Gorgonio (E), Aguanga & Oak Grove, San Diego (S). Open ground with fine, sandy soils.	Fed: None Calif: SSC, S1S2 MSHCP: AC c	Low
Taxidea taxus American badger	Mountains, deserts, interior valleys where burrowing animals are available as prey & soil permits digging. Throughout Central & W North America.	Fed: None Calif: SSC, S3	Absent (No burrows)
INVERTEBRATES			
Bombus crotchii Crotch bumble bee	Coastal CA E to Sierra-Cascade crest & S into Mexico. Open grassland and scrub habitats. Food plant genera include *Antirrhinum, Asclepias, Chaenactis, Lupinus, Medicago, Salvia, Phacelia, Clarkia, Dendromecon, Eschscholzia,* and *Eriogonum*. Lives in colonies that may be underground in rodent holes or above ground in rock piles, tree cavities, etc.	Fed: None Calif: CanE, S1S2	Occurs

Special Status Species	HABITAT AND DISTRIBUTION	Status Designation	Potential for Occurrence
Carolella busckana Busck's gallmoth	Beaches, salt marshes, sand dunes and coastal scrub dunes, presumed extirpated.	Fed: None Calif: SA, SH	Absent (No habitat)
Ceratochrysis longimala Desert cuckoo wasp	Chaparral, scrub habitats, juniper. LA, Riv, Ventura cos. Possibly extirpated.	Fed: None Calif: SA, S1	Low
Cicindela tranquebarica viridissima Greenest tiger beetle	Riparian woodland adjacent to Santa Ana River basin, usually found in open spots between trees.	Fed: None Calif: SA, S1	Absent (No habitat)
Euchloe hyantis andrewsi Andrew's marble butterfly	Rocky canyons, cliffs, moraines, & gravelly flats. Larvae host plants – native mustards, especially *Streptanthus* sp. S Oregon S through CA W of Sierra Nevada crest to N Baja California.	Fed: None Calif: SA, S1	Absent (No habitat)
Euphydryas editha quino Quino checkerspot butterfly	Coastal scrub, open chaparral, juniper woodland, native grassland. Western Riverside Co., southern San Diego Co., Baja. Flight season from mid-Jan to late May. Host plants are dwarf plantain (*Plantago erecta*), purple owl's clover (*Castilleja exserta*), white snapdragon (*Antirrhinum coulterianum*), wooly plantain (*Plantago patagonica*), thread-leaved bird's beak (*Cordylanthus rigidus*). USFWS considers species extirpated in San Bernardino Co.	Fed: END Calif: SA, S1S2 MSHCP: AC	Not expected. Potentially suitable habitat. Not observed during surveys, no documented occurrences within 5 mi. Nearest are 7.1 mi. NE (from 1914 and extirpated) and 8.0 mi. S (from 1945 and possible extirpated).
Neolarra alba White cuckoo bee	Cleptoparasitic in the nests of perdita bees. Known only from localities in Southern California. All occurrences are historical.	Fed: None Calif: SA, SH	Not expected. All known occurrences are historical. Two documented occurrences within 5 mi., from 1928 and 1937, likely extirpated by development.
Rhaphiomidas terminatus abdominalis Delhi Sands flower-loving fly	Delhi fine sands, often with unconsolidated dunes present. SW San Bernardino Co. & NW Riverside Co.	Fed: END Calif: SA, S1 MSHCP: AC	Occurs (Based on 2005 survey)
Streptocephalus woottoni Riverside fairy shrimp	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Coastal scrub, valley & foothill grassland, vernal pool, wetland. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season. Generally restricted to pools greater than 12 inches deep.	Fed: END Calif: SA, S1S2 MSHCP: AC a	Absent (No vernal pool habitat)
CDFW (2020a, 2021a), USFWS (2021), Dudek (2003), RCA (2019); BNA (2020); eBird (2020)			

Documented occurrences refers to species occurrences in the California Natural Diversity Database (CNDDB) unless otherwise noted. For plant species that are not tracked in the CNDDB, records from the Consortium of California Herbaria (CCH) may be used. eBird (eBird.org) records of bird observations are noted but should be interpreted with caution.

Federal designations: (Federal Endangered Species Act, U. S. Fish and Wildlife Service):

END: Federally listed, endangered; an animal or plant in danger of extinction within the foreseeable future throughout all or a significant portion of its range.

THR: Federally listed, threatened; an animal or plant which is likely to become an Endangered species within the foreseeable future throughout all or a significant portion of its range.
Cand Candidate for federal listing as threatened or endangered; species that has been studied by the U.S. Fish and Wildlife Service, and the Service has concluded that it should be proposed for addition to the Federal Endangered and Threatened species list.
Prop Proposed for federal listing as Endangered or Threatened under Section 4 of the Endangered Species Act.
Delisted: Previously federally listed as endangered or threatened, but is no longer listed (e.g., due to recovery).
None: The species has no federal conservation status.
BGEPA: Federal Bald and Golden Eagle Protection Act; protects bald and golden eagles.
BCC: USFWS Bird of Conservation Concern; migratory and non-migratory bird species (beyond those already designated as Federally threatened or endangered) that represent USFWS highest conservation priorities.

State designations: (California Endangered Species Act, California Dept. of Fish and Wildlife)
END: State listed, endangered; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease.
CanE: Candidate Endangered; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed as being under review by the Department of Fish and Wildlife for addition to the list of endangered species, or a species for which the commission has published a notice of proposed regulation to add the species to the list of endangered species.
CanF: Candidate Threatened; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed as being under review by the Department of Fish and Wildlife for addition to the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to the list of threatened species.
THR: State listed, threatened; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of special protection and management efforts.
RARE: State listed as rare: a native plant species, subspecies, or variety when, although not presently threatened with extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens (Native Plant Protection Act of 1977).
SSC: CDFW Species of Special Concern; vertebrate species of concern due to declining population levels, limited ranges, and/or continuing threats that have made them vulnerable to extinction.
FP: Fully Protected; California Fish and Game Code states that Fully Protected species "...may not be taken or possessed at any time and no provision of this code or any other law shall be construed to authorize the issuance of permits or licenses to take any fully protected" species, although take may be authorized for necessary scientific research.
Delisted: Previously state listed as threatened or endangered, but no longer listed (e.g., due to recovery).
SA: CDFW Special Animal; wildlife of state conservation concern.
SH: All California sites are historical, still some hope of rediscovery.
SX: All California sites are historical, presumed extirpated.
None: The species has no state conservation status.

State Rank (S Rank): A reflection of the condition and imperilment of an element (plant, animal, vegetation community) throughout its range within the state. The S ranks are determined through a combination of rarity, threat, and trend factors, weighted more heavily on the rarity factors. Where correct category is uncertain, the S rank includes two categories or a question mark. Older ranks, which need to be updated, may still contain a decimal "threat" rank of .1, .2, or .3, where .1 indicates very threatened status, .2 indicates moderate threat, and .3 indicates few or no current known threats.

S1: Critically imperiled; imperiled in the state because of extreme rarity or some factor(s) making it especially vulnerable to extirpation from the state.
S2: Imperiled; imperiled in the state because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation from the state or nation.
S3: Vulnerable; vulnerable in the state due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation. S4: Apparently secure; uncommon but not rare, some cause for long-term concern due to declines or other factors.

S5: Secure; common, widespread, and abundant in the state.
SH: Possibly extirpated; species or community occurred historically in the state, and there is some possibility that it may be rediscovered. The element has not been seen for at least 20 years, but suitable habitat still exists.
SX: Presumed extirpated; species or community is believed to be extirpated from the state.

California Rare Plant Rank (CRPR): The *California Rare Plant Ranks* are a ranking system originally developed by the California Native Plant Society (CNPS) to better define and categorize rarity in California's plants. These ranks were previously known as the CNPS lists but were renamed to the *California Rare Plant Ranks* to better reflect the joint effort among the CNPS, the CDFW, and a wide range of botanical experts, who work together to assign a rarity ranking.

1A: Plants presumed extinct in California and rare/extinct elsewhere.
1B: Plants rare, threatened, or endangered in California and elsewhere.
2A: Plants presumed extirpated in California, but more common elsewhere.
2B: Plants rare, threatened, or endangered in California but more common elsewhere.
3: Plants about which we need more information.
4: Plants of limited distribution.
X.1: Extension to CRPR (e.g., 1B.1); seriously threatened in California.
X.2: Extension to CRPR (e.g., 1B.2); fairly threatened in California.
X.3: Extension to CRPR (e.g., 1B.3); not very threatened in California.
CBR: Considered but rejected.

U.S. Forest Service (USFS) designation:

S: Sensitive; plant and animal species identified by a regional forester that are not listed or proposed for listing under the Federal Endangered Species Act for which population viability is a concern, as evidenced by significant current or predicted downward trends in population numbers or density, or significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution.

Bureau of Land Management (BLM designation:

S: Sensitive; plant and animal species requiring special management consideration to promote their conservation and reduce the likelihood for future listing under the Federal Endangered Species Act. Includes species designated as sensitive by the BLM State Director and all Federal Candidate species and Federal delisted species in the 5 years following delisting. Sensitive species are managed as special status species.

Western Riverside County Multiple Species Habitat Conservation Plan: Applied to species that are covered under state and federal permits for the MSHCP.

NAC: Species Not Adequately Conserved
AC: Species Adequately Conserved
(a): Surveys may be required for these species as part of wetlands mapping as described in Section 6.1.2 of the MSHCP.
(b): Surveys may be required for these species within Narrow Endemic Plant Species survey area as described in Section 6.1.3 of the MSHCP.
(c): Surveys may be required for these species within locations shown on survey maps as described in Section 6.3.2 of the MSHCP.
(d): Surveys may be required for these species within Criteria Area as described in Section 6.3.2 of the MSHCP.
(e): These Covered Species will be considered Adequately Conserved when conservation requirements identified in species-specific conservation objectives have been met. Species-specific conservation objectives for these species are presented in Section 9.0 of the MSHCP. Please refer to Table 9-3 of the MSHCP for specific conservation objectives that must be met for these species prior to including them on the list of Covered Species Adequately Conserved.
(f): These Covered Species will be considered Adequately Conserved when a Memorandum of Understanding is executed with the U.S. Forest Service that addresses management for these species on Forest Service Land. Refer to Table 9-3 of the MSHCP.
No entry: Not a Covered Species

Definitions of occurrence probability:

These definitions provide general guidance. Classifications for individual species may be modified based on biologists' experience and expert opinion.

Occurs:	Species was detected during surveys or previously documented on the Project site or adjacent areas.
High:	Species documented in the vicinity (i.e., within 5 miles) of the Project site and suitable habitat is present, but species not detected during surveys.
Moderate:	Species documented in the vicinity of the Project site or suitable habitat present and site is within geographic and elevational range of the species.
Low:	Species not documented in the vicinity of the Project site or suitable habitat is marginal.
Not Expected:	Species not documented in the vicinity of the Project site and suitable habitat marginal or absent, or site is not within geographic and elevational range of the species.
Absent:	No potential for the species to occur due to lack of habitat, geographic or elevation range, species life history, survey results, etc.
Unknown:	No focused surveys have been performed in the region, and the species' distribution and habitat are poorly known.

Table 13. MSHCP Table 6-2. **PLANTS THAT SHOULD BE AVOIDED ADJACENT TO THE MSHCP CONSERVATION AREA** (Taken Directly from MSHCP Section 6.1.4)

BOTANICAL NAME	COMMON NAME
Acacia spp. (all species)	acacia
Achillea millefolium var. *millefolium*	common yarrow
Ailanthus altissima	tree of heaven
Aptenia cordifolia	red apple
Arctotheca calendula	cape weed
Arctotis spp. (all species & hybrids)	African daisy
Arundo donax	giant reed or arundo grass
Asphodelus fistulosus	asphodel
Atriplex glauca	white saltbush
Atriplex semibaccata	Australian saltbush
Carex spp. (all species*)	sedge
Carpobrotus chilensis	ice plant
Carpobrotus edulis	sea fig
Centranthus ruber	red valerian
Chrysanthemum coronarium	annual chrysanthemum
Cistus ladanifer (incl. hybrids/varieties)	gum rockrose
Cortaderia jubata [*syn.C. Atacamensis*]	jubata grass, pampas grass
Cortaderia dioica [syn. *C. sellowana*]	pampas grass
Cotoneaster spp. (all species)	cotoneaster
Cynodon dactylon (incl. hybrids varieties)	Bermuda grass
Cyperus spp. (all species*)	nutsedge, umbrella plant
Cytisus spp. (all species)	broom
Delosperma 'Alba'	white trailing ice plant
Dimorphotheca spp. (all species)	African daisy, Cape marigold
Drosanthemum floribundum	rosea ice plant
Drosanthemum hispidum	purple ice plant
Eichhornia crassipes	water hyacinth
Elaegnus angustifolia	Russian olive
Eucalyptus spp. (all species)	eucalyptus or gum tree
Eupatorium coelestinum [syn. *Ageratina* sp.]	mist flower
Festuca arundinacea	tall fescue
Festuca rubra	creeping red fescue
Foeniculum vulgare	sweet fennel
Fraxinus uhdei (and cultivars)	evergreen ash, shamel ash
Gaura (spp.) (all species)	gaura
Gazania spp. (all species & hybrids)	gazania
Genista spp. (all species)	broom
Hedera canariensis	Algerian ivy
Hedera helix	English ivy
Hypericum spp. (all species)	St. John's Wort
Ipomoea acuminata	Mexican morning glory
Lampranthus spectabilis	trailing ice plant
Lantana camara	common garden lantana
Lantana montevidensis [syn. *L. sellowiana*]	lantana
Limonium perezii	sea lavender
Linaria bipartita	toadflax
Lolium multiflorum	Italian ryegrass
Lolium perenne	perennial ryegrass
Lonicera japonica (incl. 'Halliana')	Japanese honeysuckle
Lotus corniculatus	birdsfoot trefoil

TABLE 6-2. PLANTS THAT SHOULD BE AVOIDED ADJACENT TO THE MSHCP CONSERVATION AREA (*Cont.*)

BOTANICAL NAME	COMMON NAME
Lupinus arboreus	yellow bush lupine
Lupinus texanus	Texas blue bonnets
Malephora crocea	ice plant
Malephora luteola	ice plant
Mesembryanthemum nodiflorum	little ice plant
Myoporum laetum	myoporum
Myoporum pacificum	shiny myoproum
Myoporum parvifolium (incl. 'Prostratum')	ground cover myoporum
Oenothera berlandieri	Mexican evening primrose
Olea europea	European olive tree
Opuntia ficus-indica	Indian fig
Osteospermum spp. (all species)	trailing African daisy, African daisy,
Oxalis pes-caprae	Bermuda buttercup
Parkinsonia aculeata	Mexican palo verde
Pennisetum clandestinum	Kikuyu grass
Pennisetum setaceum	fountain grass
Phoenix canariensis	Canary Island date palm
Phoenix dactylifera	date palm
Plumbago auriculata	cape plumbago
Polygonum spp. (all species)	knotweed
Populus nigra 'italica'	Lombardy poplar
Prosopis spp. (all species*)	mesquite
Ricinus communis	castorbean
Robinia pseudoacacia	black locust
Rubus procerus	Himalayan blackberry
Sapium sebiferum	Chinese tallow tree
Saponaria officinalis	bouncing bet, soapwart
Schinus molle	Peruvian pepper tree, California pepper
Schinus terebinthifolius	Brazilian pepper tree
Spartium junceum	Spanish broom
Tamarix spp. (all species)	tamarisk, salt cedar
Trifolium tragiferum	strawberry clover
Tropaelolum majus	garden nasturtium
Ulex europaeus	prickly broom
Vinca major	periwinkle
Yucca gloriosa	Spanish dagger

An asterisk (*) indicates some native species of the genera exist that may be appropriate.

Sources: California Exotic Pest Plant Council, United States Department of Agriculture-Division of Plant Health and Pest Prevention Services, California Native Plant Society, *Fremontia* Vol. 26 No. 4, October 1998, *The Jepson Manual: Higher Plants of California*, and County of San Diego-Department of Agriculture.

APPENDIX B: Jurisdictional Features

Table 14. Locations and Characteristics of Jurisdictional Features (based on 2018 jurisdictional delineation).

Feature	Lat. / Long.	Cowardin Code	HGM Code	Dominant Vegetation
1	34.033733ºN 117.397731ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
2	34.029489ºN 117.399833ºW	RIVERINE	R6	Sage scrub, mulefat/riparian, non-native trees
3	34.023025ºN 117.401147ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
4	34.022847ºN 117.401125ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard, mulefat/willow riparian
5	34.011539ºN 117.412528ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
6	34.021225ºN 117.413728ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
7	34.018739ºN 117.410575ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
8	34.022514ºN 117.412475ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
9	34.024364ºN 117.413542ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
10	34.027383ºN 117.412203ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard
11	34.033711ºN 117.405781ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard, mulefat/willow riparian
12	34.023025ºN 117.401147ºW	RIVERINE	R6	Sage scrub, non-native grass and mustard

Table 15. CDFW & MSHCP Jurisdiction & Impacts (based on 2023 jurisdictional delineation).

Drainage Identifier	CDFW Streambeds / Wetlands & MSHCP Habitat				Impacted CDFW Streambed / Wetlands MSHCP Riparian / Riverine
	CDFW Drainage Area sq. ft.	CDFW Drainage Acreage	CDFW Streambed / Riverine	CDFW Wetland / Riparian	
1	10,912	0.25	10,912	0	0.25
2	45,083	1.03	25,028	20,055	1.03
3	15,729	0.36	15,729	0	0.36
4	36,152	0.83	30,946	5,206	0.83
5	25,435	0.58	25,435	0	0.58
6	11,782	0.27	11,782	0	0.27
7	21,677	0.50	21,677	0	0.50
8	30,427	0.70	30,427	0	0.70
9	27,560	0.63	27,560	0	0.63
10	36,680	0.84	35,537	1,143	0.84
11	28,156	0.65	16,089	12,067	0.65
12	9,263	0.21	9,263	0	0.21
Total	**298,856**	**6.86**	**260,385** **5.97 ac**	**38,471** **0.88 ac**	**6.86**

Table 16. State Waters Jurisdiction& Impactes

Drainage Identifier	State Waters including Wetlands		
	Length (ft.)	Present (sq. ft.)	Impacted (sq. ft.)
1	947	5682	5682
2	2,103	30100	30100
3	1,704	7400	7400
4	1,700	13233	13233
5	1,683	6692	6692
6	1,604	4,809	4,809
7	1,359	12710	12710
8	1,846	16182	16182
9	2,596	8098	8098
10	2,116	2034	2034
11	1,402	18136	18136
12	2103	12100	12100
TOTALS		137076 (3.15 acres)	137076 (3.15 acres)

APPENDIX C: Weather Data

Table 17. Weather Data

Year/Month	Riverside Municipal, CA airport – KRAL			Rialto, CA – KCARIALT4		
	Avg. High (ºF)	Avg. Low (ºF)	Precipitation (inches)	High (ºF)	Low (ºF)	Precipitation (inches)
14-Oct	103	55	0.00	103	51	0.68
14-Nov	92	44	0.28	90	44	0.88
14-Dec	80	34	1.69	77	29	4.86
15-Jan	84	30	0.39	80	29	0.78
15-Feb	87	40	0.28	85	41	1.33
15-Mar	94	40	0.24	95	39	0.15
15-Apr	96	45	0.13	98	43	0.14
15-May	93	48	0.53	97	45	0.85
15-Jun	105	57	0.00	109	54	0.00
15-Jul	97	60	1.41	102	57	0.77
15-Aug	108	61	0.00	111	58	0.00
15-Sept	106	59	1.87	106	56	1.43
Total 2014-15 season			**6.82**			**11.87**
15-Oct	104	57	0.06	101	53	0.38
15-Nov	90	35	0.08	89	37	0.43
15-Dec	84	33	0.32	81	30	1.67
16-Jan	78	38	3.26	74	34	2.88
16-Feb	91	37	0.04	87	32	0.84
16-Mar	89	41	0.44	85	41	1.27
16-Apr	98	46	0.26	96	42	0.87
16-May	93	50	0.00	95	48	0.38
16-Jun	114	56	0.00	114	53	0.00
16-Jul	110	60	0.00	111	56	0.00
16-Aug	107	61	0.00	106	57	0.00
16-Sept	91	62	0.00	105	51	0.00
Total 2015-16 season			**4.46**			**8.72**
16-Oct	83	58	0.55	95	50	0.64
16-Nov	78	51	0.68	90	39	1.14
16-Dec	66	48	1.86	76	33	4.37
17-Jan	62	45	4.79	75	36	7.05
17-Feb	65	48	1.06	79	36	2.25
17-Mar	78	49	0.16	93	37	0.33
17-Apr	81	52	0.10	96	43	0.02

Year/Month	Riverside Municipal, CA airport – KRAL			Rialto, CA – KCARIALT4		
	Avg. High (ºF)	Avg. Low (ºF)	Precipitation (inches)	High (ºF)	Low (ºF)	Precipitation (inches)
17-May	81	55	0.01	100	42	0.25
17-Jun	91	61	0.00	108	50	0.00
17-Jul	97	66	0.01	107	56	0.07
17-Aug	96	66	0.28	109	59	0.38
17-Sept	89	64	0.00	109	54	0.73
Total 2016-17 season			**9.50**			**17.23**
17-Oct	88	58	0.00	100	53	0.00
17-Nov	78	60	0.03	94	49	0.01
17-Dec	69	52	0.00	84	41	0.01
18-Jan	74	47	1.55	82	42	0.45
18-Feb	69	47	0.35	85	35	0.56
18-Mar	71	52	0.94	89	40	2.82
18-Apr	71	52	0.94	95	32	0.00
18-May	77	54	0.15	99	50	0.47
18-Jun	80	67	0.00	99	54	0.00
18-Jul	96	75	0.02	116	59	0.00
18-Aug	89	76	0.00	109	60	0.00
18-Sep	81	58	1.10	101	57	0.00
Total 2017-18 season			**5.08**			**4.32**

APPENDIX D: Palmer's Oak Information (Confidential)

This section deleted for publication

APPENDIX E: Site Photographs





Photo 1 (05.15.2014): Near the southern end of the survey area facing north.



Photo 2 (05.15.2014): Near the southern end of the survey area facing northwest.



Photo 3 (09.17.2015): Southwest edge of the survey area facing northeast.



Photo 4a (02.17.2015): Southwest edge of the survey area facing north.



Photo 4b (02.17.2015): Southwest edge of the survey area facing east.



Photo 5 (02.17.2015): Portion of the survey area facing northeast.



Photo 6a (02.17.2015): Western portion of the survey area facing north.



Photo 6b (02.17.2015): Western portion of the survey area facing southeast.



Photo 7a (02.17.2015): Western portion of the survey area facing southeast.



Photo 7b (02.17.2015): Western portion of the survey area facing northeast.



Photo 8 (02.17.2015): Western portion of the survey area facing east.



Photo 9 (02.17.2015): Western portion of the survey area facing northwest.



Photo 10a (6247): Northwestern boundary facing northeast.



Photo 10b (02.17.2015): Northwestern boundary facing southeast. Delhi soils area.



Photo 10c (02.17.2015): Northwestern boundary of the survey area facing northeast.



Photo 11 (02.17.2015): Northwestern corner of the survey area facing south.



Photo 12 (02.17.2015): Just north of the northwestern corner facing south.



Photo 13 (02.17.2015): Northern end, center of the survey area facing south.



Photo 14a (02.17.2015): Near the northeast corner of the survey area facing east.



Photo 14b (02.17.2015): Near the northeast corner of the survey area facing west.



Photo 14c (02.17.2015): Near the northeast corner of the survey area facing southwest.



Photo 15a (06.30.2014): Northeast portion of the survey area facing northwest.

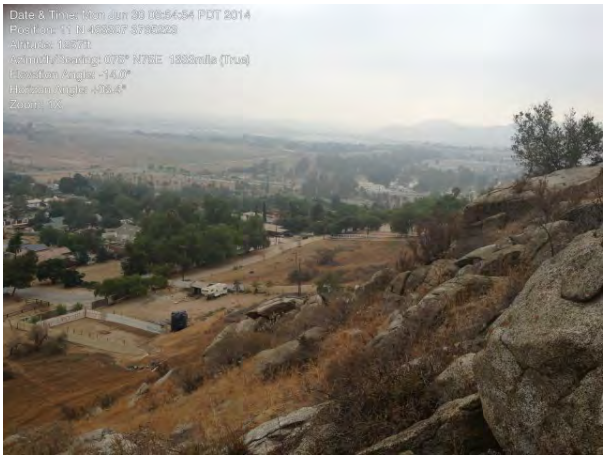


Photo 15b (4652): Northeast portion of the survey area facing northeast.



Photo 15c (06.30.2014): Northeast portion of the survey area facing southwest.



Photo 16a (02.17.2015): Center of the survey area facing west.



Photo 16b (02.17.2015): Center of the survey area facing north.



Photo 16c (02.17.2015): Center of the survey area facing east.



Photo 17 (02.17.2015): Eastern boundary (center) of the survey area facing south.



Photo 18 (04.19.2016): Brittlebush scrub, facing north.



Photo 19 (04.26.2016): Brittlebush scrub, facing west-northwest.



Photo 20 (01.21.2022): California buckwheat scrub, facing northeast.

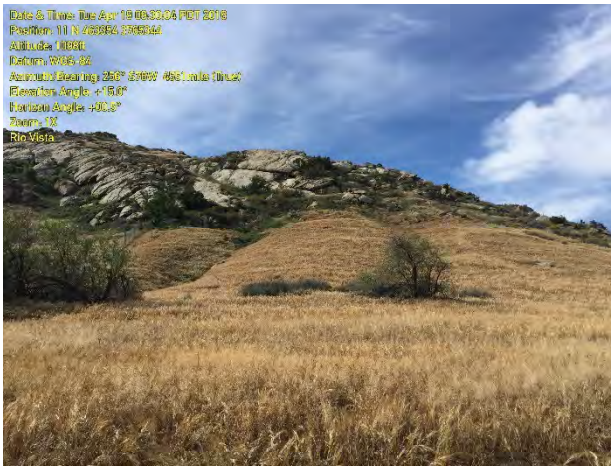


Photo 21(04.19.2016) Chamise chaparral in background; non-native grassland in foreground, facing WSW.



Photo 22 (04.19.2016): Chamise chaparral on left, facing SSW. Vegetation to the right of road is offsite.



Photo 23 (04.19.2016): Ornamental vegetation in background on right, facing NNE.



Photo 24 (01.21.2022): Ornamental vegetation in drainage, facing northeast.



Photo 25 (01.21.2022): Willow scrub in drainage, facing SSE.



Photo 26 (07.05.2015): Willow scrub on left and ornamental vegetation on right, facing east.



Photo 27 (04.19.2016): Non-native grassland, facing SSW.



Photo 28 (04.19.2016): Non-native grassland, facing west.



Photo 29 (01.21.2022). Trash dumping on the site.

APPENDIX F: Regulatory Environment

The following summary of the regulatory environment is provided for information purposes and is not intended for review or comment by the lead or wildlife agencies.

Federal Endangered Species Act

Section 9 of the federal Endangered Species Act (FESA), 1973 (as amended) prohibits “take” of federally listed threatened and endangered species. Candidate species receive no protection under FESA, but the USFWS encourages conservation of these species. “Take” is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. “Harm” is further defined to include habitat modification or degradation when it actually kills or injures wildlife by impairing essential behavioral patterns including breeding, feeding, or sheltering.

Incidental take is take that results from, but is not the purpose of, carrying out an otherwise lawful activity. Incidental take of federally listed species may be authorized under Section 7 of FESA for federal properties or where federal actions (i.e., federal permitting or federal funding) are involved or under Section 10 of FESA for non-federal actions.

Section 7 requires all Federal agencies, in "consultation" with the USFWS, to ensure that their actions are not likely to jeopardize the continued existence of listed species or result in destruction or adverse modification of critical habitat. The Section 7 process requires preparation of a federal Biological Assessment to determine whether a proposed major construction activity under the authority of a Federal action agency is likely to adversely affect listed species, proposed species, or designated critical habitat. After formal consultation, the USFWS will issue a Biological Opinion stating whether or not a Federal action is likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat.

Section 10 lays out the guidelines under which a permit may be issued to authorize take of endangered or threatened species (in the absence of any federal nexus). Application for an incidental take permit under Section 10 is subject to certain requirements, including preparation by the permit applicant of a conservation plan, generally known as a "Habitat Conservation Plan" or "HCP." An HCP is a plan that outlines ways of maintaining, enhancing, and protecting a given habitat type needed to protect species. The plan usually includes measures to minimize impacts,

such as provisions for permanently protecting land, restoring habitat, and relocating plants or animals to another area.

The Migratory Bird Treaty Act and Executive Order 13186

The federal Migratory Bird Treaty Act (MBTA) of 1918 (16 USC 703-711) is an international treaty that made it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Executive Order 13186 ensures that environmental analyses of federal actions required by the National Environmental Policy Act (NEPA) or other established environmental review processes evaluate the effects of actions on migratory birds, with emphasis on species of concern. Disturbance that causes nest abandonment and/or loss of reproductive effort (e.g., killing or abandonment of eggs or young) or loss of habitat upon which the birds depend could be considered “take.”

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (BGEPA) provides for the protection of the bald eagle and the golden eagle by prohibiting the take, possession, sale, purchase, barter, offer to sell, purchase or barter, transport, export or import, of any bald or golden eagle, alive or dead, including any part, nest, or egg, unless allowed by permit (16 U.S.C. 668(a); 50 CFR 22). "Take" includes to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb. “Disturb” means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause injury to an eagle, a decrease in its productivity by substantially interfering with normal breeding, feeding, or sheltering behavior, or nest abandonment.

California Fish and Game Code, Sections 3503 and 3513

California Fish and Game Code Section 3503 prohibits take, possession, or needless destruction of bird nests or eggs except as otherwise provided by the Code; Section 3503.5 prohibits take or possession of birds of prey or their eggs except as otherwise provided by the Code; and Section 3513 provides for the adoption of the provisions of the federal Migratory Bird Treaty Act, described above.

Jurisdictional Determination of Waters and Wetlands

Three agencies generally regulate activities within streams, wetlands, and riparian areas in California: (1) the U.S. Army Corps of Engineers (USACE) regulates activities under Section 404 of the federal Clean Water Act; (2) the Regional Water Quality Control Board (RWQCB) regulates activities under Section 401 of the federal Clean Water Act and the State Porter-Cologne Water Quality Control Act; and (3) the California Department of Fish and Wildlife (CDFW) regulates activities under California Fish and Game Code Sections 1600-1616.

Federal Clean Water Act, Section 404

Section 404 of the federal Clean Water Act applies to "Waters of the United States" (WoUS). By definition these include waterways that could be used for interstate commerce and their tributaries, including any waters that flow into traditional navigable waters. In non-tidal waters, the limits of jurisdiction are "ordinary high water marks" (OHWM) such as stream banks.

There have been recent changes to the definition of USACE jurisdictional waters. The final rule published on April 21, 2020 and effective on June 22, 2020 (85 FR 22250) defined the scope of waters federally regulated under the Clean Water Act; however, litigation could affect implementation and changes may occur under the current administration. The 2020 rule defined Waters of the U.S. as:

- Territorial seas and traditional navigable waters;
- Tributaries of jurisdictional waters;
- Lakes, ponds, and impoundments that contribute surface water flow to a jurisdictional water in a typical year; and
- Wetlands adjacent to non-wetland jurisdictional waters.

Under the rule, a wetland is considered “adjacent” if it:

- Abuts (i.e., touches a side or corner of) another non-wetland jurisdictional water;
- Is inundated by flooding from another non-wetland jurisdictional water at least once in a typical year;
- Is physically separated from a non-wetland jurisdictional water by a natural berm, bank, dune, or similar natural feature without regard to whether there is a specific hydrological surface connection in a typical year; or
- Is physically separated from a non-wetland jurisdictional water by an artificial structure like a road, dike, or barrier as long as the structure allows for a direct hydrologic surface

connection between the wetland and the other jurisdictional water at least once in a typical year. This connection can be through a gate or culvert or even by water overtopping a road.

Waters specifically excluded from the definition of Waters of the U.S. are:

- All waters not covered by the four categories of Waters of the U.S. listed above;
- Groundwater;
- Ephemeral features;
- Storm water runoff and overland sheet flow;
- All ditches not considered "tributaries;"
- Prior converted cropland;
- Artificially irrigated areas;
- Certain artificial lakes and ponds;
- Water-filled depressions or pits excavated in connection with mining or construction or to obtain fill, sand, or gravel;
- Certain storm water control features;
- Groundwater recharge, water reuse, and wastewater recycling structures; and
- Wastewater treatment systems.

Final determination and delineation of federal jurisdiction is made by the USACE and not by the project biologists. Therefore, fieldwork and documentation of the site conditions are done as a preliminary delineation until the USACE reviews and concurs with the results.

Federal Clean Water Act, Section 401 and Porter-Cologne

The RWQCB has jurisdiction over wetlands, WoUS, and Waters of the State under Section 401 of the CWA and the Porter-Cologne Water Quality Control Act (Porter-Cologne) under the California Water Code (§ 13000, et seq.) Permitting is required for activities that will result in a discharge of soils, nutrients, chemicals, detrital materials, or other pollutants into WoUS, Waters of the State, or adjacent wetlands that will affect the water quality of those bodies and the watershed.

California Fish and Game Code, Section 1600

The CDFW, through provisions of the California Fish and Game Code (Sections 1600-1616), is empowered to issue agreements ("Lake and Streambed Alteration Agreements") for projects that

will adversely affect wildlife habitat associated with any river, stream, or lake edges. The Lake and Streambed Alteration Agreement will typically include required measures to mitigate impacts.

Sections 1600-1616 of the California Fish and Game Code apply to stream channels, defined elsewhere in the Code as follows:

"A stream is a body of water that flows at least periodically through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

The state definition does not specify a flow rate or inundation frequency and provides no clear distinction between jurisdictional and non-jurisdictional lands.

While the federal USACE criteria (hydrology, soils, and vegetation) are used to evaluate the presence or absence of wetlands within the project site, the determination of state wetland status is not based on the combined presence of the three criterion because the state can take jurisdiction of any one of the three: (1) the presence of open water or saturated soils, (2) presence of vegetation including riparian or wetland species, and/or (3) water-modified or oxygen-depleted soils.

California Endangered Species Act

California Endangered Species Act (CESA) definitions of endangered and threatened species parallel those defined in the FESA. The CESA defines an endangered species as ". . . a native species or subspecies of a bird, mammal, fish, amphibian, reptile or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes including loss of habitat, change in habitat, over exploitation, predation, competition or disease." Endangered species are in serious danger of becoming extinct and threatened species are likely to become endangered species in the foreseeable future (according to Sections 2062 and 2067, respectively, of the California Fish and Wildlife Code). Candidate species are those under formal review by the CDFW for listing as endangered or threatened (Section 2067). Prior to being considered for protected status, the CDFW designates a species as being of special concern. Species of Special Concern are those for which the CDFW has information indicating population decline.

California Environmental Quality Act

The California Environmental Quality Act (CEQA) and CEQA Guidelines (§ 15000 et seq.) require identification of environmental effects from discretionary projects. Significant effects are to be mitigated by avoidance, minimization, rectification, or compensation whenever possible.

Effects to all state and federal listed species are considered significant under CEQA. In addition to formally listed species, CEQA considers effects to species that are demonstrably endangered or rare as important or significant. These definitions can include state designated species of special concern, federal candidate and proposed species, California Natural Diversity Database (CNDDB) tracked species, and California Rare Plant Rank (CRPR) 1B and 2 plants.

Appendix G of the CEQA Guidelines specifically addresses biological resources and encompasses a broad range of resources to be considered.

California Natural Diversity Database

The California Natural Diversity Database (CNDDB) is a database that ranks overall condition of listed and special status species and sensitive vegetation communities on global (throughout its range) and state (within California) levels. The CNDDB includes documented occurrences of listed and special status species that have been reported to CDFW. State ranking is numerical, ranging from one to five (S1 to S5), with one indicating very few remaining individuals or little remaining habitat and five indicating a demonstrably secure to ineradicable population condition. State ranks (S ranks) may also include an extension (e.g., S1.x) indicating current threats ranging from one (very threatened) to three (no current threats known).

California Rare Plant Rank

The California Native Plant Society (CNPS) Inventory of Rare and Endangered Species includes documented occurrences of special status plant species that are available through the Consortium of California Herbaria and other sources. The CNPS, in coordination with CDFW, has cataloged California's rare and endangered plants into lists according to population distributions and viability. These lists are numbered and indicate the following California Rare Plant Ranks (CRPR): (1A) presumed extinct in California; (1B) rare, threatened, or endangered throughout their range; (2A) presumed extirpated in California, but more common in other states; (2B) threatened or endangered in California, but more common in other states; (3) more information is needed to establish rarity; and (4) plants of limited distribution in California (i.e., naturally rare in the wild), but whose populations do not appear to be susceptible to threat. A

CRPR may also have an extension (e.g., 1B.x) that indicates current level of threat: seriously threatened (x.1), moderately threatened (x.2), or not very threatened (x.3).

Western Riverside County Multiple Species Habitat Conservation Plan

The County of Riverside, eight (8) additional land jurisdictions, and 14 cities have prepared a Multiple Species Habitat Conservation Plan (MSHCP). The plan will build upon existing preserves to provide connectivity and wildlife corridors throughout the region. The plan proposes to conserve approximately 500,000 acres and 146 different species. Approximately 347,000 acres are anticipated to be conserved on existing Public/Quasi-Public lands with additional contributions of approximately 153,000 acres from willing sellers.

The MSHCP was approved by the County on June 17, 2003 and an Implementation Agreement (IA) between the USFWS, CDFW, and the County was executed and an associated USFWS Section 10(a)(1)(B) Permit was issued on June 22, 2004. The permit grants take authorization for species as "Covered Species Adequately Conserved." Focused surveys are required for species identified as not adequately conserved under the MSHCP if suitable habitat is present onsite.

The MSHCP establishes seven (7) core reserve areas and associated linkages between proposed and existing core areas. The MSHCP divides areas into Criteria Cells using USGS coordinates and establishes conservation goals for each Cell. If a property is located in a Cell, the proponent will be required to undergo a Habitat Acquisition and Negotiation Strategy (HANS) determination with the County of Riverside.

According to the Riverside County Integrated Project website, the parcels that compose the Project site are located within the Jurupa Area Plan. Conservation efforts for the Project site will be evaluated with regard to Criteria Cell/Group goals, sensitive species identified as not adequately conserved and observed in the survey area, riverine/riparian or vernal pool habitat and their associated sensitive species (if located in the survey area), fairy shrimp, and jurisdictional areas. The survey area is located north and east of Core A (Figure 21). The MSHCP Conservation Summary Report requires a habitat assessment on the property to address, at a minimum, potential habitat for burrowing owl. In addition, the Project site lies within the Narrow Endemic plant survey area map and requires habitat assessments for San Diego ambrosia, Brand's phacelia, and San Miguel savory. A habitat assessment and focused survey for Delhi Sands flower-loving fly was also required by the Riverside County Environmental Programs Department, due to presence of appropriate soils in the survey area.

MSHCP Section 6.1.2

Section 6.1.2 of the MSHCP requires an assessment of potentially significant effects of the proposed Project on riparian/riverine areas and vernal pools, as currently required by CEQA, using available information augmented by Project-specific mapping. Riparian/Riverine areas and vernal pools are defined as follows:

- Riparian/Riverine Areas are lands that have flow for all or a portion of the year and which contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.

- Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics, and the definition of the watershed supporting vernal pool hydrology, must be made on a case-by case basis. Such determinations should consider the length of the time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records.

With the exception of wetlands created for the purpose of providing wetlands habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating the characteristics described above which are artificially created are not included in these definitions.

Species Specific Conservation Goals; Delhi Sands Flower Loving Fly

The conservation objectives for this species are currently based on Objective 1B:

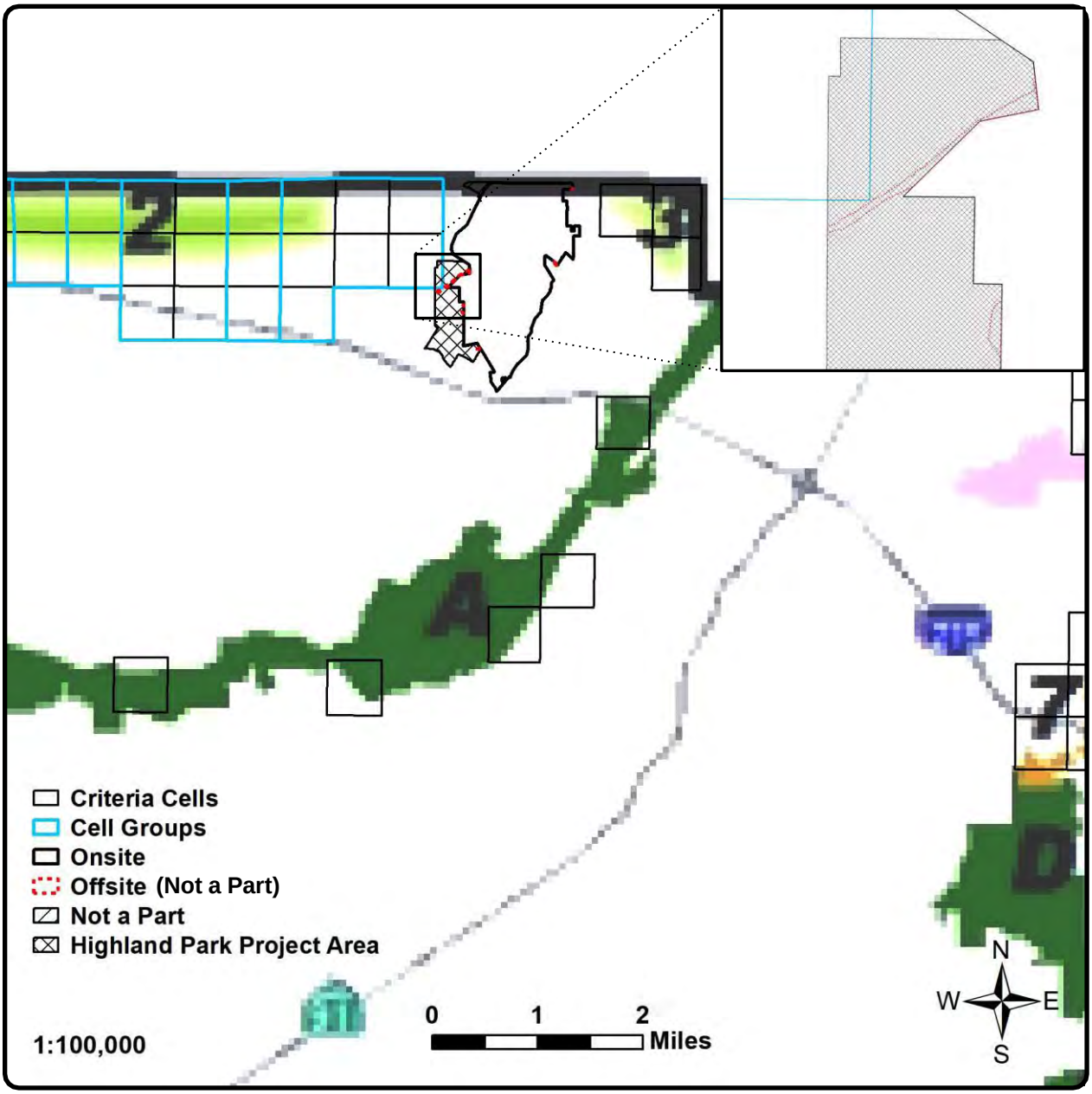
> "With the exception of Cells 21, 22 and 55 within Area Plan Subunit 3 of the Jurupa Area Plan discussed below, include within the MSHCP Conservation Area locations within the Plan Area determined to be occupied by the Delhi Sands flower-loving fly based on the results of surveys…. If the Project site is determined to be occupied, 75 percent of the mapped Delhi Soils onsite will be conserved (or), if the…distribution of habitat for the Delhi Sands flower-loving onsite is not consistent with the extent of mapped Delhi Soils onsite, 75 percent of such habitat onsite will be conserved. If it is determined that 75 percent conservation on the occupied site is infeasible or the Service concurs that such conservation would not contribute

to the long-term conservation of the species, conservation may occur within the conservation areas identified in Objective 1A (of the MSHCP) at a ratio of three times (3:1) the mapped Delhi soils or subject to Service concurrence, the habitat of the species as identified by survey biologist on the identified occupied site."

Riverside County Oak Tree Management Guidelines

The Conservation Element of the Riverside County General Plan requires that development in oak woodlands be evaluated through biological reports and mitigation measures prepared. Retention and replacement may be required.

The County developed Oak Tree Management Guidelines to address the treatment of oak woodlands and reduce project impacts on oak trees. The Guidelines require a biological study on all properties that contain oak trees to include an inventory and mapping of all oak trees (trees in the genus *Quercus*) greater than two (2) inches in diameter at breast height (DBH). DBH is a forestry term that means diameter of the trunk (or sum of the diameters of multiple trunks) of a tree at 4.5 feet above the ground on the uphill side.



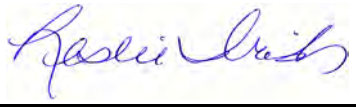
Rio Vista Project
Riverside County, California

MSHCP Cells and Linkages
Figure 21

APPENDIX G: Riverside County Documentation

Certification

Certification: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: March 30, 2023 SIGNED: 

Leslie Irish, Principal, L&L Environmental, Inc.
909-335-9897

1) Fieldwork Performed By:

Guy Bruyea
Name

2) Fieldwork Performed By:

Melanie Dicus
Name

3) Fieldwork Performed By:

Patrick Luft
Name

4) Fieldwork Performed By:

Leslie Irish
Name

5) Fieldwork Performed By:

Name

6) Fieldwork Performed By:

Name

Check here __ if adding any additional names / signatures below or on other side of page.

BIOLOGICAL REPORT SUMMARY SHEET

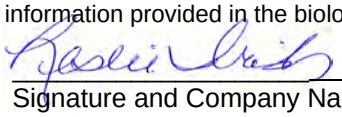
Applicant Name: _____Richland Communities_____
Assessor's Parcel Number(s): 175-080-010, 175-090-001 through -005, 175-100-003, -005, & -006, 175-150-002, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008
Section, Township and Range: __Sections 3, 4, 9 & 10, Township 2 South, Range 5 West
Building and Safety Log Number: _____
Case Number: _____ Lot/Parcel _____ EA Number _____

MARK ITEM(S) SURVEYED FOR	**SPECIES or ENVIRONMENTAL ISSUE of CONCERN**	***(Mark Yes, No, or N/A regarding species findings on the referenced site)***		
		Yes	**No**	**n/a**
	Arroyo Southwestern Toad	Yes	**No**	n/a
X	Blueline Stream(s)	Yes	**No**	n/a
X	Burrowing Owl	Yes	**No**	n/a
	Coachella Valley Fringed-toed Lizard	Yes	No	n/a
X	Coastal California Gnatcatcher	**Yes**	No	n/a
X	Coastal Sage Scrub	**Yes**	No	n/a
X	Delhi Sands Flower-loving Fly	Yes	**No**	n/a
	Desert Pupfish	Yes	No	n/a
	Desert Slender Salamander	Yes	No	n/a
	Desert Tortoise	Yes	No	n/a
	Flat-tailed Horned Lizard	Yes	No	n/a
X (HA)	Least Bell's Vireo	Yes	**No**	n/a
X	Oak Woodlands	Yes	**No**	n/a
	Quino Checkerspot Butterfly	Yes	No	n/a
X (HA)	Riverside Fairy Shrimp	Yes	**No**	n/a
	Santa Ana River Woolystar	Yes	No	n/a
	San Bernardino Kangaroo Rat	Yes	No	n/a
	Slender-horned Spineflower	Yes	No	n/a
	Stephens' Kangaroo Rat	Yes	No	n/a
X	Vernal Pools	Yes	**No**	n/a
X	Wetlands (Only State Wetlands present)	**Yes**	No	n/a

MARK ITEM(S) SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE of CONCERN	*(Mark Yes, No, or N/A regarding species findings on the referenced site)*		
X	San Diego Ambrosia	Yes	**No**	n/a
X	Brand's Phacelia	Yes	**No**	n/a
X	San Miguel savory	Yes	**No**	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a

Species of concern shall be any unique, rare, endangered, or threatened species. It shall include species used to delineate wetlands and riparian corridors. It shall also include any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened, or candidate species by either state, or federal regulations, or for Riverside County as listed by the California Department of Fish and Game Natural Diversity Data Base (CNDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report or habitat assessment.



L & L Environmental, Inc. — Signature and Company Name

March 30, 2023 — Date

10(a) Permit Number (if applicable)

Permit Expiration Date

County Use Only

Received By: _____ Date: _____

PD-B# _____

Attachment E-4

LEVEL OF SIGNIFICANCE CHECKLIST
For Biological Resources
(Submit two copies to the County)

Case Number: _____ Lot/Parcel No. _____ EA Number _____

Assessor's Parcel Number(s): 175-080-010, 175-090-001 through -005, 175-100-003, -005, & -006, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008
Date: March 30, 2023

Biological Resources: (Check the level of impact that applies to the following questions.)

Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact

a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan?

☐ ■ ☐ ☐

b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?

☐ ■ ☐ ☐

c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game, or U. S. Wildlife Service?

☐ ■ ☐ ☐

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?

☐ ☐ ■ ☐

LEVEL OF SIGNIFICANCE CHECKLIST
For Biological Resources
(Submit two copies to the County)

e) Have a substantial adverse effect on any riparian habitat, or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game, or the U. S. Fish and Wildlife Service?

☐ ■ ☐ ☐

f) Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pools, coastal, etc.) through direct removal, filling, hydrological interruption)

☐ ☐ ☐ ■

g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

☐ ☐ ☐ ■

Findings of Fact:

The Project will impact MSHCP Riparian/Riverine habitat. Delhi Sands flower-loving fly was found on the site in 2005, but 2015/2016 surveys were negative. The Project will impact 24.3% of the suitable habitat and 22.5% of the 2005 mapped occupied habitat. Focused surveys for burrowing owl were negative. Narrow endemic plants were not observed and suitable habitat is either lacking or of poor quality. An ancient Palmer's oak is present. Coastal California gnatcatcher and Crotch bumble bee have been observed on the site.

Proposed Mitigation:

Conservation of open space on the site. Avoidance of the Palmer's oak. Completion of a preconstruction burrowing owl clearance survey and a nesting bird survey. Biological monitoring. Preconstruction clearance surveys. Completion of permits and agreements for impacts to jurisdictional features, if required. Mitigation for impacts to jurisdictional features and riparian/riverine habitat.

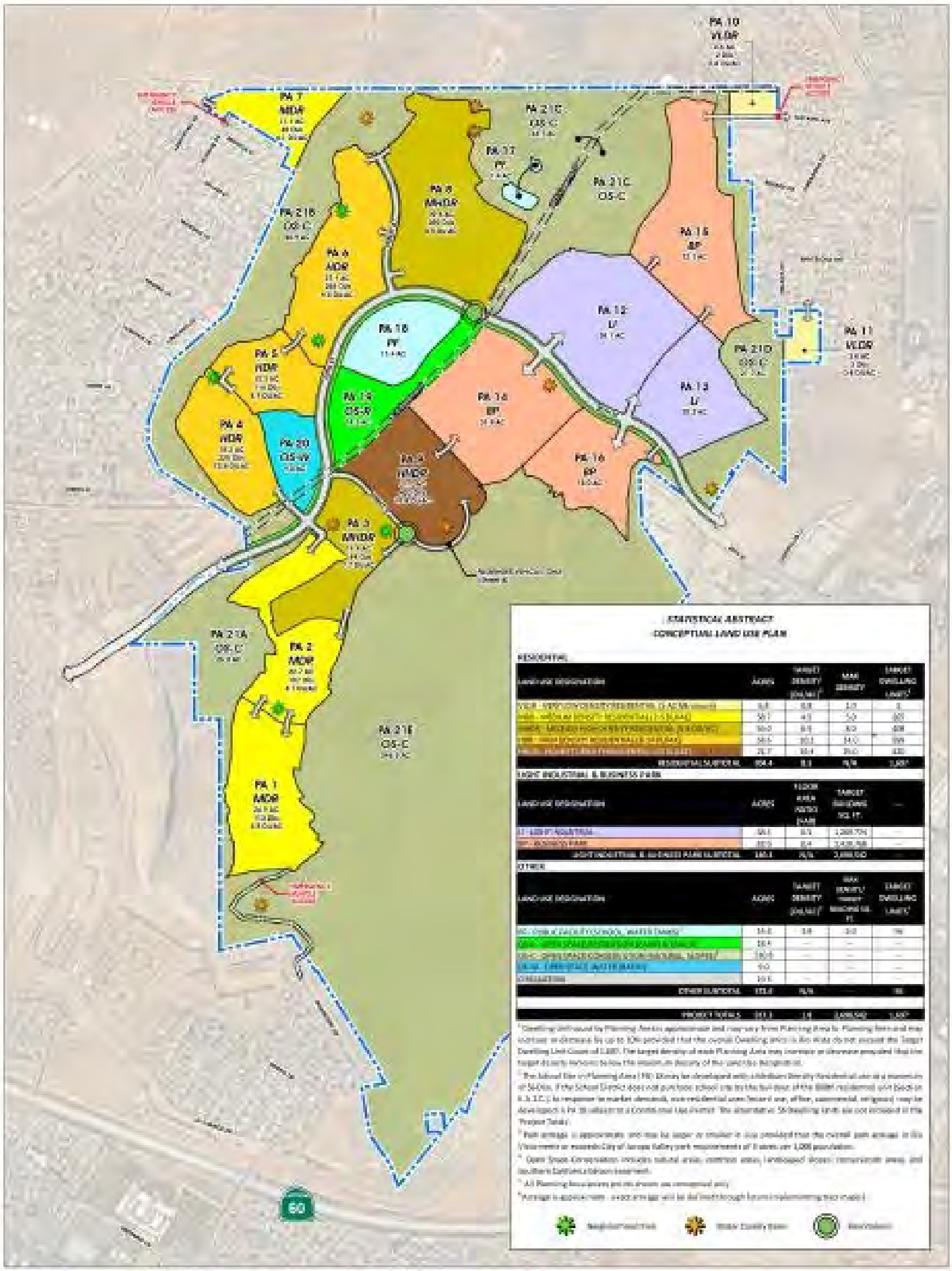
Monitoring Recommended:

Monitoring is recommended during clearing and grubbing of vegetation, and when work is done adjacent to the avoided Delhi soils and jurisdictional waters or Riparian/Riverine habitat.

Source: CGP Fig. VI.36-VI.40
Revised October 1999

APPENDIX H: Land Use Plan

RIOVISTA



STATISTICAL ABSTRACT
CONCEPTUAL LAND USE PLAN

RESIDENTIAL

LAND USE DESIGNATION	ACRES	TARGET DENSITY (DU/AC)[1]	MAX DENSITY	TARGET DWELLING UNITS[1]
VLDR - VERY LOW DENSITY RESIDENTIAL (1 AC/DU minimum)	9.8	0.8	1.0	8
LDR - LOW DENSITY RESIDENTIAL (1-2 DU/AC)	50.1	4.0	5.0	200
MDR - MEDIUM DENSITY RESIDENTIAL (2-5 DU/AC)	164.2	8.0	8.0	658
MHDR - MEDIUM HIGH DENSITY RESIDENTIAL (5-8 DU/AC)	58.5	10.0	14.0	585
HDR - HIGH DENSITY RESIDENTIAL (8-14 DU/AC)	21.7	10.0	20.0	217
RESIDENTIAL SUBTOTAL	304.4	8.0	N/A	1,667

LIGHT INDUSTRIAL & BUSINESS PARK

LAND USE DESIGNATION	ACRES	FLOOR AREA RATIO (FAR)	TARGET BUILDING SQ. FT.	—
LI - LIGHT INDUSTRIAL	58.1	0.5	1,265,754	—
BP - BUSINESS PARK	20.0	0.4	348,480	—
LIGHT INDUSTRIAL & BUSINESS PARK SUBTOTAL	146.1	N/A	3,488,000	—

OTHER

LAND USE DESIGNATION	ACRES	TARGET DENSITY (DU/AC)[1]	MAX DENSITY (DU/AC) MAXIMUM BUILDING SQ. FT.	TARGET DWELLING UNITS[1]
OS-C - OPEN SPACE-CONSERVATION (WATER BASED)	14.0	0.0	0.0	0[2]
OS-R - OPEN SPACE-RECREATION (COMMUNITY PARK)	39.1	—	—	—
OS-C - OPEN SPACE-CONSERVATION (NATURAL SETTING)[3]	15.0	—	—	—
VLDR - VERY LOW DENSITY RESIDENTIAL	9.0	—	—	—
ROW - RIGHT-OF-WAY	32.1	—	—	—
OTHER SUBTOTAL	113.2	N/A	—	0[2]
PROJECT TOTALS	563.7	2.9	3,488,000	1,667

[1] Dwelling Unit count by Planning Area is approximate and may vary from Planning Area to Planning Area and may increase or decrease by up to 10% provided that the overall Dwelling Unit count in Rio Vista does not exceed the Target Dwelling Unit Count of 1,667. The target density of each Planning Area may increase or decrease provided that the target density remains in line with the vision or theme of the Land Use designation.

[2] The School Site in Planning Area 5 (PA 5) may be developed with a Medium density residential use at a maximum of 14 DUs, if the School District does not purchase school site by the final days of the 666th residential unit (back-to-back C of O). In response to market demands, non-residential uses (retail, office, commercial, religious) may be developed in PA 5 subject to a Conditional Use Permit. The alternative 14 Dwelling Units are not included in the Project Totals.

[3] Park acreage is approximate and may be larger or smaller in size provided that the overall park acreage in the Project meets or exceeds City of Jurupa Valley park requirements of 3 acres per 1,000 population.

[4] Open Space-Conservation includes natural areas, common areas, landscaped slopes, conservation areas, and Southern California Edison easement.

[5] All Planning Area acreages are more or less and are conceptual only.

[6] Acreage is approximate - exact acreage will be determined through formal subdivision (tract maps).

Neighborhood Park Water Quality Basin Basin Inlet/Outlet

Source(s): Newman Engineering (2020), RCTLMA (2020)
Compiled by: Blankinship and Associates (07-23-2021)

Rio Vista Specific Plan Land Use Plan

SP 16001

Job #: 471-004
Date: August 5, 2021

D.2 - Jurisdictional Delineation

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L&L ENVIRONMENTAL, INC.
REGULATORY SERVICES
BIOLOGICAL & CULTURAL INVESTIGATIONS & MONITORING

UPDATED JURISDICTIONAL DELINEATION FOR RIO VISTA, SPECIFIC PLAN CITY OF JURUPA VALLEY, RIVERSIDE COUNTY, CALIFORNIA

±902.43-Acre Property, ±902.43 Acres Surveyed

APNs 175-080-010, 175-090-001 through -005, 175-100-003 (portion), -005, & -006, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008, SP MA16045, Rubidoux Area, Sections 3, 4, 9, & 10, Township 2 South, Range 5 West, USGS Fontana 7.5' Topographic Quadrangle Map

Prepared For:

Brian Hardy
RMD Inland Investors, LLC & Canadian Pacific Land, LLC / Richland Real Estate Fund, LLC
3161 Michelson Drive, Suite 425
Irvine, CA 92612
949-383-4124

Prepared By:

Leslie Irish, Principal & Delineator — lirish@llenviroinc.com
Ann Lopez, Delineator — alopez@llenviroinc.com
Jeffrey Sonnentag, Technical Editor — jsonnentag@llenviroinc.com

Report Summary:

Jurisdictional Drainages on the project site include 298,821.6 sq. ft. (6.86 acre) of CDFW Streambeds and MSHCP Riparian/Riverine habitat. Of this 3.15 acres is considered RWQCB State Waters. The Project will impact 298,821.6 sq. ft. (6.86 acre) of Streambeds and Riparian Riverine habitat of which 3.15 acres is also State Water under Porter Cologne. No impacts will occur to federal waters or wetlands since none are present onsite.

Delineation Conducted By: Leslie Irish & Ann Lopez
Delineation Conducted On: May/June 2015, updated October 2017, May 2018
Report Date: October 2015, revised December 2016
Updated: May 2018, Nov 2021, Jan and Sept 2022, and September 2023

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MANAGEMENT SUMMARY

L&L Environmental, Inc. conducted a jurisdictional delineation on Richland Communities' Rio Vista Project in the City of Jurupa Valley, California.

The purpose of the jurisdictional delineation is to quantify the portion of a project site that is subject to jurisdiction of the U. S. Army Corps of Engineers (USACE), the Regional Water Quality Control Board (RWQCB), and the California Department of Fish and Wildlife (CDFW). This information is required to support applications for regulatory permits under the Federal Clean Water Act (CWA) Section 404 and Section 401, Porter Cologne and California Department of Fish and Game 1600 Code (Code).

L&L delineators Leslie Irish and Ann Lopez conducted a survey of the parcels in November 2014, August 2015, October 2017, August 5, 2020, and updated the information in January 2022 and September 2023 finding 298,821.6 sq. ft. (6.86 acres) of CDFW and MSHCP jurisdiction/habitat. Of the 6.86 acres of CDFW jurisdiction present, 3.15 acres is subject to the control of the RWQCB under Porter Cologne.

An Approved Jurisdictional Delineation (AJD) was received from the USACE verifying no "waters of the U. S." are present onsite.

RESPONSIBLE PARTIES

Applicant
Brian Hardy
Richland Communities, Inc.
3161 Michelson Drive, Suite 425
Irvine, CA 92612
(949) 698-2191

Property Owner
RMD Inland Investors, LLC & Canadian Pacific Land, LLC / Richland Real Estate Fund, LLC
3161 Michelson Drive, Suite 425
Irvine, CA 92612
949-383-4124

Preparer of Jurisdictional Delineation
Leslie Irish
L&L Environmental, Inc.
721 Nevada Blvd, Suite 307
Redlands, CA 92373
909-335-9897

Directions, Address, and Geographic Coordinates

The Project site is located east of Armstrong Blvd and north of the 60 Freeway in Jurupa Valley/Riverside. The Project does not have a street address.

From Los Angeles or Ontario:

- Take the 60 Freeway east toward Riverside.
- Take Exit 50 Rubidoux Blvd.
- Turn left onto Rubidoux Blvd.
- Take the third left onto 28th Street (portions unpaved).
- Go past railroad tracks, straight ahead (through gate) to Project site.

From Riverside (downtown area):

- Take the 60 Freeway west toward Los Angeles.
- Take Rubidoux exit.
- Turn right onto Rubidoux Blvd.
- Take the second left onto 28th Street (portions unpaved).
- Go past railroad tracks, straight ahead (through gate) to Project site.

The center of the Project site is located at 34.022613° N / -117.407957° W. The access point is located at 34.011202° N / -117.400224° W.

1.0) PROJECT DESCRIPTION

The Rio Vista Project consists of the rescission of a Specific Plan (SP), which was initially approved by Riverside County in 1992, followed by adoption of a new Specific Plan, Zoning Ordinance Amendment, and General Plan Amendment for a master planned community on an approximately 917.3-acre site (including APNs 175-080-021 and 175-150-002 and all of APN 175-100-003) in the City of Jurupa Valley. Tentative Tract Maps will be processed subsequently.

The 1992 Approved Specific Plan included 917.3 acres, but the project area limits for biological resources extends across 902.43 acres as calculated in GIS. Additional biological resource work will be required should any impacts occur outside the project area.

Based on the NOP Residential land uses within the proposed project would consist of Very Low-Density Residential (VLDR), Medium Density Residential (MDR), Medium-High Density Residential (MHDR), High-Density Residential (HDR), and Highest Density Residential (HHDR). Additionally, the proposed project would include an elementary school, a community park and open spaces, and circulation improvements. Light Industrial (LI) and Business Park (BP) areas are included in the proposed project as well. The Land Use Plan for the Specific Plan (T&B Planning, August 5, 2021) describes the proposed Project as up to 1,697 residential dwelling units on 204.4 acres[1], 140.3 acres of Light Industrial and Business Park, 14.8 acres of Public Facilities (school, water tanks), 19.6 acres for Circulation, 18.4 acres of Open Space–Recreation (parks and trails), 9.0 acres for Open Space–Water (basin), and 510.8 acres of Open Space–Conservation (natural, slopes). Acreage is approximate and will be defined through future implementing tract map(s).

The Land Use Plan would include approximately 510.8 acres of conserved open space, consisting of a combination of natural areas, common areas, landscaped slopes, conservation areas, and Southern California Edison Easement.

[1] This report does not include APN 175-080-021 (PA 7) with 11.1 acres and 45 dwelling units, APN 175-150-002 (PA 11) with 3.8 acres and 3 dwelling units, and a portion of APN 175-100-003 (PA 10) with 2.6 acres and 2 dwelling units.

2.0) PROJECT LOCATION AND SETTING

The Rio Vista project is located within the City of Jurupa Valley within the County of Riverside (Figure 1), east of Armstrong Road and north of the 60 freeway, within parts of Sections 3, 4, 9, and 10 of Township 2 south, Range 5 west within the USGS Fontana quadrangle (Figure 2).

The site is generally bounded as follows: to the west by high-density housing, with a golf club and open space beyond; to the east by industrial developments, open space, and high density housing, with the Santa Ana River and the City of Riverside beyond; to the north by open space, with high density housing beyond; and to the south by open space and high density housing, with the 60 freeway, high density housing, and commercial developments beyond (Figure 3).

Topographically, the project contains flat sandy areas graduating to steep, rocky hillsides. Elevation onsite ranges from approximately 920 to 1,740 feet above mean sea level (AMSL). Surrounding topographic features in the project vicinity include small valleys and surrounding relatively flat areas.

3.0) REGULATORY CRITERIA USED

L&L used the following criteria and definitions to evaluate the drainages within the Rio Vista project.

3.1) Jurisdictional Criteria

Section 404 of the federal Clean Water Act applies to "Waters of the United States" (WoUS). By definition, these include waterways, streams, and intermittent streams that could be used for interstate commerce and their tributaries. In non-tidal waters the limits of jurisdiction are "ordinary high water marks" (OHWM) such as stream banks.

Sections 1600-1616 of the state Fish and Game Code apply to stream channels, defined elsewhere in the Code as follows:

> "A stream is a body of water that flows at least periodically through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

The state definition does not specify a flow rate or inundation frequency and provides no clear distinction between jurisdictional and non-jurisdictional lands.

Under MSHCP Volume 1 Section 6.1.2, areas associated with wetland and streambed systems must be evaluated for consideration as riparian/riverine or vernal pool habitat. Riparian/riverine areas are defined within the MSHCP as:

> ". . . lands which contain Habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year." MSHCP Vol. 1, Section 6.1.2.

Vernal pools are defined within the MSHCP as:

> ". . . seasonal wetlands that occur in depression areas that have wetland indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetland indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. . . ." MSHCP Vol. 1, Section 6.1.2.

3.2) Evaluation Criteria

According to the Clean Water Act (as amended in 1977) and the Corps of Engineers Wetlands Delineation Manual (1987), a "wetland" is a site that is "inundated or saturated . . . at a frequency and duration sufficient to support . . . vegetation typically adapted for life in saturated soil conditions. . . ." Soil saturation deprives plant roots of oxygen, limiting the types of plants that can grow. Absence of oxygen leads to reducing chemical conditions (rather than oxidizing conditions) and development of unique soil types (hydric soils). The USACE evaluates wetlands by three (3) criteria: hydrology, soils, and vegetation. Under the federal delineation procedure, a site must normally satisfy all three (3) criteria to be classified as a wetland. At its discretion, CDFW may regard a site as a wetland based on only one (1) listed criterion.

The hydrology criterion evaluates the presence of water based on observed flooding or inundation or on indirect evidence such as high water marks, drift lines, or sediment deposits. The soils criterion is based on "hydric" soil characteristics, such as certain colors and mottling that develop under wetland conditions. (These characteristics generally do not develop in sandy soils found in many southern California streambeds.) The vegetation criterion evaluates plant species growing onsite. Most plants cannot survive extended periods of root saturation and are called "obligate upland" species. Others grow almost exclusively in wetland habitats, while still others may be found growing in both wetlands and uplands. These are called "obligate wetlands" or "facultative wetlands" species, respectively. While the federal USACE criteria are used to evaluate the presence or absence of wetlands within the project site, the determination of state wetland status is not based on the combined presence of the three (3) criteria, because the state can take jurisdiction of area exhibiting any one (1) of the criteria: (1) presence of open water or saturated soils, (2) presence of vegetation, including riparian or wetland species, and/or (3) water modified or oxygen depleted soils.

Traditional Navigable Waters (TNWs) and Relatively Permanent Waters (RPWs), where water flows for three (3) or more months per year, are jurisdictional by definition; however, for Non-Relatively Permanent Waters (Non-RPWs) data and analyses supporting connectivity must be provided to justify USACE jurisdiction. Erosional features (i.e., small and large gullies), swales, and excavated roadside ditches are usually not considered jurisdictional. Non-RPW are evaluated for "more than an insubstantial or speculative effect on the chemical, physical, or biological integrity of TNWs."

On August 29, 2023, the U.S. Environmental Protection Agency (EPA) and Department of the Army (the agencies) issued a final rule to amend the final "Revised Definition of 'Waters of the United States'" rule, published in the Federal Register on January 18, 2023. This final rule conforms the definition of "waters of the United States" to the U.S. Supreme Court's May 25, 2023, decision in the case of *Sackett v. Environmental Protection Agency*. Parts of the January 2023 Rule are invalid under the Supreme Court's interpretation of the Clean Water Act in the *Sackett* decision. Therefore, the agencies have amended key aspects of the regulatory text to conform it to the Court's decision. The conforming rule, "Revised Definition of 'Waters of the United States'; Conforming," published in the *Federal Register* and became effective on September 8, 2023.

In addition, due to ongoing litigation, the January 2023 Rule is not currently operative in certain states and for certain parties. The agencies are implementing the January 2023 Rule, as amended by the conforming rule, in 23 states, the District of Columbia, and the U.S. Territories. In the other 27 states and for certain parties, the agencies are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime and the Supreme Court's decision in *Sackett* until further notice. See the Rule Status page for additional information about the status of the January 2023 Rule, as amended, and litigation.

In summary (see link for full text) WoUS are defined below as shown in 40 CFR 120.2(a)

(1) Waters which are:

(i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

(ii) The territorial seas; or

(iii) Interstate waters;

(2) Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under paragraph (a)(5) of this section;

(3) Tributaries of waters identified in paragraph (a)(1) or (2) of this section that are relatively permanent, standing or continuously flowing bodies of water;

(4) Wetlands adjacent to the following waters:

(i) Waters identified in paragraph (a)(1) of this section; or

(ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3) of this section and with a continuous surface connection to those waters;

(5) Intrastate lakes and ponds, streams, or wetlands not identified in paragraphs (a)(1) through (4) of this section that are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3) of this section.

Eight exclusions from the definition of "waters of the United States" are codified at paragraph (b), and key terms are defined at paragraph (c). "Adjacent" is defined at (c)(2) as "having a continuous surface connection."

In April of 2020 the State Water Resources Control Board issued Implementation Guidance for the State Wetland Definition and Procedures for Discharges of Dredged or Fill Materials into Water of the State (vs WoUS) (Procedures). Which said:

Waters of the State California Code of Regulations, title 23, section 3831(w) states that "[a]ll waters of the United States are also 'waters of the state.'" As a practical application the RWQCB has taken jurisdiction over the OHWM and any associated wetlands. Wetlands that are categorically excluded from qualifying as a water of the U.S. may nevertheless qualify as waters of the state under another jurisdictional category regardless of federal status.

In September 2023, the Regional Board began offering Training on the 2023 Procedures that take into account the Sackett Ruling by SCOTUS. The 2023 Procedures will become effective when published in the Federal Register. The revised procedures modify the timeline for obtaining a 401 permit from 60 days to up to one year with the reasonable period of time defaulting to 6 months when not otherwise defined by the agencies. Other changes are also proposed.

In January 2023, the California State Water Resources Control Board (Board) amended the Porter-Cologne Water Quality Control Act (Water Code), including 2022 Statutes. Porter-Cologne Water Quality Control Act - 2023 Version (ca.gov) The Water Code defines "Waters of the state" as any surface water or groundwater, including saline waters, within the boundaries of the state. It describes "Beneficial uses" of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves. It describes "Quality of the water" as the chemical, physical, biological, bacteriological, radiological, and other

properties and characteristics of water which affect its use. "It defines "Contamination" as impairment of the quality of the waters of the state by waste to a degree which creates a hazard to the public health through poisoning or through the spread of disease. "Contamination" includes any equivalent effect resulting from the disposal of waste, whether or not waters of the state are affected.

In the absence of Waters of the US, the Regional Board will exert jurisdiction over Waters of the State via the Water Code. When this occurs a WDR is issued rather than a 401 permit under the Clean Water Act.

4.0) METHODS

The potential for occurrence of state and federal waters and wetlands within the project site was evaluated through a literature review and visits to the property. Literature reviewed included a previous jurisdictional delineation conducted by AMEC Earth & Environmental, Inc. (2005), soils maps and descriptions (Knect 1971), topographic maps (USDA Nat. Res. Cons. Serv. SSURGO Data), aerial photography (Google Earth, 1994-2014), and the list of wetland plants in California.

Before visiting the site, a detailed topographic map of the property (received from Hunsaker & Associates) was studied and placed as a layer over parcel shapefiles obtained from Riverside County (NAD83, California State Plane VI in feet). All Drainages evident on the map were marked and considered potential waters/wetlands to be evaluated in the field. The Drainage systems were labeled for reference in the field and in this report. All Drainages were examined in the field May/June 2015, October 2017 by walking along their entire lengths, and updated in 2018, 2020, 2022 and 2023.

Soil maps and descriptions of local soils have been obtained from the USDA Natural Resources Conservation Service (Soil Survey Geographic [SSURGO] Database - websoilsurvey.nrcs.usda.gov/app/). Soils mapped on the project site were listed and evaluated for their properties relating to potential wetlands. Soil conditions onsite were noted during the field visit and discrepancies between observations and SCS descriptions were further examined by digging soil pits where necessary. Soil color characteristics were evaluated using a Munsell soil color chart.

During field surveys, vegetation growing within drainages was examined. Dominant plant species were listed along with any potential indicators of wetland conditions. The vegetation criterion for wetlands is satisfied if half or more of the dominant plant species at a site are ranked as "obligate wetland," "facultative wetland," or "facultative" species (OBL, FACW, or FAC, respectively, see Table 1).

Table 1. Summary of Wetlands Vegetation Criteria.

Category	Probability
Obligate Wetland (OBL)	Almost always occur in wetlands (estimated probability >99%)
Facultative Wetland (FACW)	Usually occur in wetlands (Estimated probability 67%-99%)
Facultative (FAC)	Equally likely to occur in wetlands and non-wetlands (est. probability 34%-66%)
Facultative Upland (FACU)	Usually occur in non-wetlands (estimated probability 67%-99%)
Obligate Upland (UPL)	Almost always occur in non-wetlands (estimated probability >99%)

MSHCP Riparian/Riverine and Vernal Pools

In conformance with the MSHCP, this report addresses riparian/riverine areas and vernal pools within the drainages descriptions of each system. Where riparian vegetation is associated with drainages (and to the extent that it is native to California), we considered it suitable for designation as riparian under the MSHCP. Where flows evidence some level of energy, at least ephemerally, we consider them to be riverine in the broadest sense. To meet the definition of a vernal pool three (3) factors must be addressed: suitable soils and soils conditions, proper hydrology, and one (1) or more indicator species.

5.0) RESULTS

The nearest Traditional Navigable Water (TNW) is the Pacific Ocean, which is located 49.5 river miles away. The nearest Relatively Permanent Water (RPW) is the Santa Ana River, which is located 1.25 river miles away.

5.1) Hydrology

Twelve (12) Non-Relatively Permanent Water (Non-RPW) Drainages and their tributaries (i.e., ephemeral carriers of periodic rainfall) were identified within the project area during the present survey (Figure 5). Rainfall runoff generally ceases to flow through the drainages within hours or a few days at most. We classed these as CDFW Streambeds, MSHCP Riparian/Riverine including areas which were classified as Waters of the State. No Waters of the US are present.

Drainage 1 drains toward the east of the site and flows offsite into a storm drain at the corner of Cedar and Pine Road. The storm drain outlet is offsite and not visible on Google Earth. The flow may enter a detention basin, located just to the east, and percolate into the ground.

Drainage 2 drains toward the east of the site and flows offsite onto a road. It appears to follow roadside gutters toward a sand and gravel operation and terminate at a detention basin where it percolates into the ground.

Drainage 3 drains toward the east of the site and flows offsite into Drainage 4.

Drainage 4 drains toward the east of the site and flows offsite into a cement plant site on 20th Street, where it appears to percolate into the ground. Drainage 12 connects to Drainage 4 but is detailed separately in Table 2.

Drainage 5 drains toward the south of the site and flows offsite and either percolates into the ground or enters the West Riverside Canal. The West Riverside Canal, which flowed freely in past decades and drained to the Santa Ana River, now appears to terminate in a field and percolate into the ground.

Drainages 6 through 10 drain the western portion of the site and flow offsite where their respective channels dissipate at the base of the hill. The water then percolates into the ground.

Drainage 11 drains the western portion of the site and flows offsite where it dissipates into an agricultural field and percolates into the ground.

5.2) Soils

Soil Survey Geographic (SSURGO) Database shapefiles identify 13 soil mapping units on the portions of the site surveyed (see Figure 4) in the following groups:

ChF2 = Cieneba sandy loam (15-50% slopes, eroded)
CkF2 = Cieneba rocky sandy loam (15-50% slopes, eroded)
Cr = Cieneba-Rock outcrop complex
DaD2 = Delhi fine sand (2-15% slopes, wind-eroded)
Db = Delhi fine sand
GyC2 = Greenfield sandy loam (2-8% slopes, eroded)
GyD2 = Greenfield sandy loam (8-15% slopes, eroded)
HcD2 = Hanford coarse sandy loam (8-15% slopes, eroded)
QU = Quarries
RaB3 = Ramona sandy loam (0-5% slopes, severely eroded)
RaD2 = Ramona sandy loam (8-15% slopes, eroded)
VsD2 = Vista coarse sandy loam (8-15% slopes, eroded)
VsF2 = Vista coarse sandy loam (15-35% slopes, eroded)

Mapping units, as defined by the Soil Conservation Service, are not necessarily composed entirely of the soil type for which they are named. For example, areas shown as the "Cajalco" mapping unit are predominantly Cajalco soils but may include patches of unnamed soils with slightly different profiles. Descriptions by Knecht (1971) do not indicate that any of the soil mapping units on the project site have unmapped inclusions of hydric soils.

Soil types are not consistent with an alkali playa or vernal pool complex. Pools or depressions characteristic of vernal pool habitat were not found on the subject property.

5.3) Vegetation

The site contains a mixture of steep hillsides, rolling hills, rocky outcrops, and low-relief canyons combined with relatively flat areas. Many unpaved roads are present onsite and nearby areas have been adversely impacted by historic and ongoing heavy off-road vehicle use. Large areas of the site are almost completely devoid of vegetation due to these activities. Surrounding land use includes a mixture of low and high-density residential areas, fallow agricultural fields, commercial properties, mining, and open space.

Seven (7) vegetation communities are present within the survey area: Brittle Bush Scrub (*Encelia farinosa* Shrubland Alliance), California Buckwheat Scrub (*Eriogonum fasciculatum* Shrubland Alliance), Chamise Chaparral (*Adenostoma fasciculatum* Shrubland Alliance), Willow Scrub (*Salix lasiolepis/Baccharis salicifolia* Association), Non-native Grasslands (*Bromus*

Semi-natural Herbaceous Stands), Ornamental, and Developed land (Figure 8). It was noted that while the drainages and canyons are primarily vegetated with upland habitats, they also contain small numbers of blue elderberry (*Sambucus mexicana*), willow (*Salix* species), mulefat (*Baccharis salicifolia*), and non-native Peruvian pepper tree (*Schinus* species) and were determined to include small areas of riparian habitat.

A single Palmer's oak (*Quercus palmeri*) is present within the survey area. Palmer's oak is present as a cluster called a "clone" at one (1) locality. The locality is not within a jurisdictional area. No MSHCP species listed for protection associated with riparian/riverine areas or vernal pools were observed.

Table 2. Streambed/MSHCP Summary Table .

Drainage Identifier	CDFW Streambeds / MSHCP Riparian / Riverine Habitat	
	CDFW Drainage Area sq. ft.	CDFW Drainage Acreage
1	10,912	0.25
2	45,083	1.03
3	15,729	0.36
4	36,152	0.83
5	25,435	0.58
6	11,782	0.27
7	21,677	0.50
8	30,427	0.70
9	27,560	0.63
10	36,680	0.84
11	28,156	0.65
12	9,263	0.21
Total	**298,856**	**6.86**

Drainages present in this table are subject to Section 6.1.2 of the MSHCP and Section 1602 of the California Department of Fish and Game Code.

Table 3. Waters of the State Summary Table .

Feature	RWQCB Area sq. ft.	RWQCB Acreage
1	5,559	0.13
2	22,648	0.52
3	9,630	0.22
4	20,317	0.47
5	10,173	0.23
6	4,701	0.11
7	13,406	0.31
8	14,056	0.32
9	11,872	0.27
10	11,175	0.26
11	10,905	0.25
12	2,772	0.06
Total	**137,214**	**3.15**

Drainages in this table are subject to Porter-Cologne under the control of RWQCB

5.4) Wildlife

Seven (7) special status wildlife species were observed during the 2014, 2015, and 2016 biological surveys: Cooper's hawk (*Accipiter cooperii*; CDFW Watch List Species), southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*; CDFW Watch List Species), Lawrence's goldfinch (*Spinus lawrencei*; USFWS Bird of Conservation Concern, CDFW Special Animal), northern harrier (*Circus cyaneus*; CDFW Species of Special Concern), northern red-diamond rattlesnake (*Crotalus ruber*; CDFW Species of Special Concern), orange-throated whiptail (*Aspidoscelis hyperythra*; CDFW Watch List Species), and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*; CDFW Species of Special Concern). Two (2) other special status wildlife species were reported as occurring in the 2005 biological surveys conducted by AMEC: coast horned lizard (*Phrynosoma blainvillii*; CDFW Species of Special Concern) and coastal whiptail (*Aspidoscelis tigris stejnegeri*; CDFW Species of Special Concern).

Suitable habitat is present, but no burrowing owl (*Athene cunicularia*; USFWS Bird of Conservation Concern, CDFW Species of Special Concern) or burrowing owl sign was identified on the property or buffer areas during surveys in 2005, 2014, and 2016.

No habitat is present within the survey area suitable to support riparian/riverine associated wildlife species as listed in the MSHCP Section 6.1.2 (arroyo toad, mountain yellow-legged frog, California red-legged frog, bald eagle, least Bell's vireo, peregrine falcon, southwestern willow flycatcher, western yellow-billed cuckoo, Santa Ana sucker, Riverside fairy shrimp, or vernal pool fairy shrimp).

Approximately 20 acres of Delhi soils occur on the property, almost entirely within Non-native Grasslands, with a small portion occurring in Brittle Bush Scrub. This area of Delhi soils is located along the western edge of the property and includes or is adjacent to the lower ends of Drainages 9, 10, and 11. Delhi sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*; federal endangered) (DSF) was observed during focused surveys by AMEC in 2005. All DSF observations were made within an approximately 3.5-acre area on the western edge of the site, where flat areas containing Delhi series (sandy) soils are present next to a residential area. This area includes or is adjacent to the lower end of Drainages 10. No DSF were found in this area during a two-year focused survey by L&L in 2015 and 2016. Because of ongoing disturbance over the last decade and a lack of DSF sightings during focused studies in 2015 and 2016, it is likely that DSF has been extirpated from this area.

Habitat suitable for coastal California gnatcatcher (*Polioptila californica californica*; federal threatened, CDFW Species of Special Concern) is present on the property. Three (3) coastal California gnatcatchers (*Polioptila californica californica*), possibly dispersing juveniles, were incidentally observed on the site and suitable habitat for this species is present. California gnatcatcher is a covered species under the MSHCP and considered adequately conserved. However, the MSHCP does not provide take authorization for nesting birds, including gnatcatchers (discussed below). One bird was incidentally identified by vocalizations by a Kizh Nation Biologist during an AB-52 Site meeting but is not listed in the CNDDB (personal communication).

The riparian habitat onsite is not adequate for least Bell's vireo (*Vireo bellii pusillus*; state and federal endangered), and no individuals were detected during focused surveys.

5.5) MSHCP Riparian/Riverine and Vernal Pool Habitat

Under the MSHCP (Volume 1, Section 6.1.2), areas associated with wetland and streambed systems must be evaluated for consideration as riparian/riverine or vernal pool habitat.

A streambed channel, either unvegetated or vegetated with upland species, generally qualifies as MSHCP riverine habitat. Therefore, riverine habitat occurs in a narrow band along drainages in the survey area where riparian habitat is absent. This area corresponds as portions of the area mapped during the jurisdictional delineation as CDFW Streambed.

The subject site contains four (4) small areas of woody, water-dependent vegetation (Figures6, 7, & 11). Arroyo willow, black willow, and mulefat are present within small portions of Drainages 2, 4, 10, and 11. In addition, Peruvian pepper trees, although ornamental and invasive, are classified as a facultative upland species in the Arid West and are, therefore, included in the riparian vegetation calculations where they occur in or adjacent to drainage. These drainages are ephemeral and rely on rainfall for their water supply. This area corresponds to the area mapped during the jurisdictional delineation as CDFW/State wetland habitat.

Soil types are not consistent with an alkali playa or vernal pool complex and pools or depressions characteristic of vernal pool habitat were not found on the property.

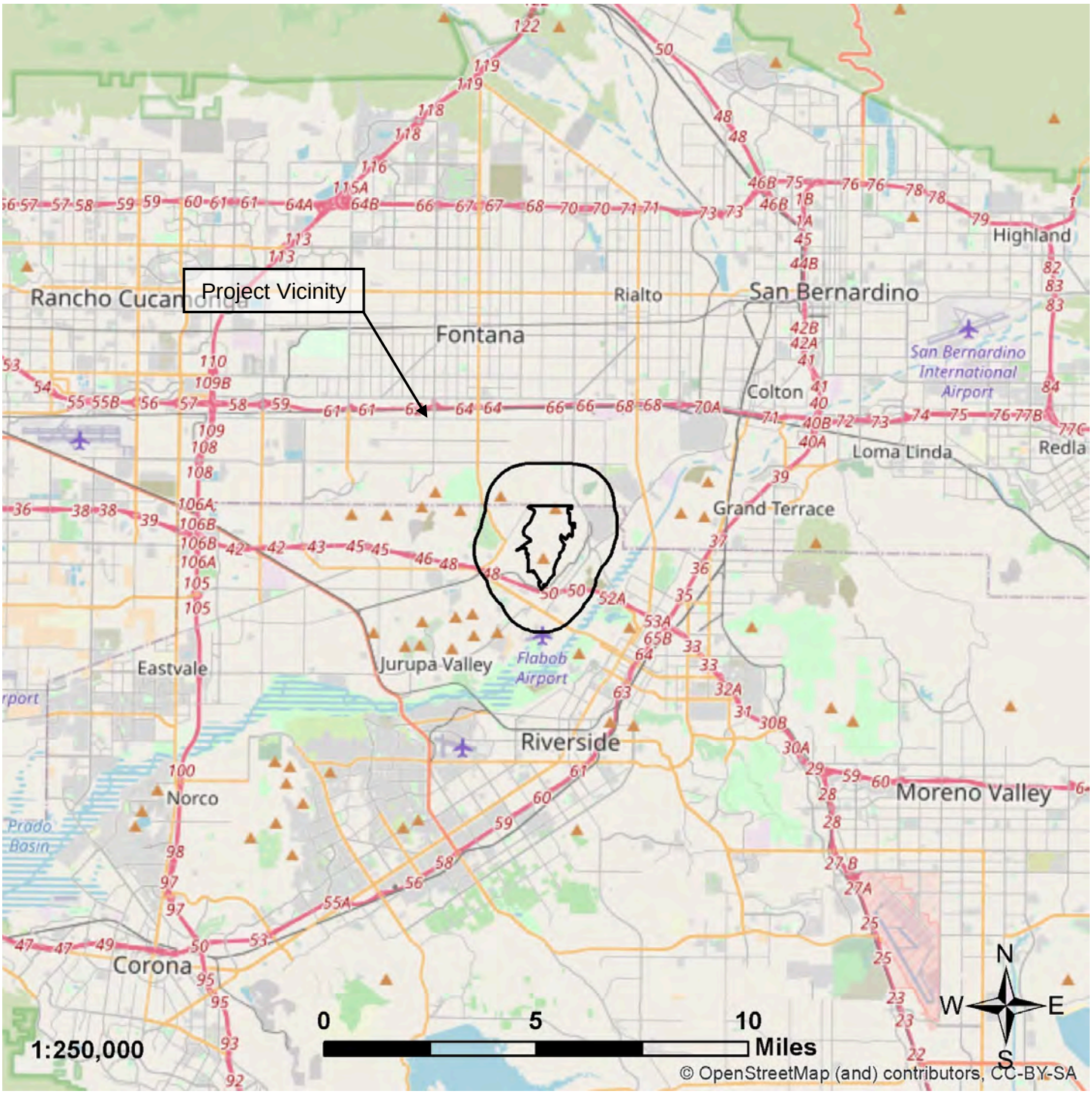
6.0) CONCLUSIONS

Jurisdictional areas on the project site include a total of 298,821.6 sq. ft. (6.86 acres) of CDFW Streambeds. Of the 6.86 acres of CDFW jurisdiction present, 3.15 acres are State Waters subject to the control of the RWQCB under Porter Cologne.

The proposed project will impact 298,821.6 sq. ft. (6.86 acres) of CDFW Streambed and 3.15 acres of RWQCB State Waters.

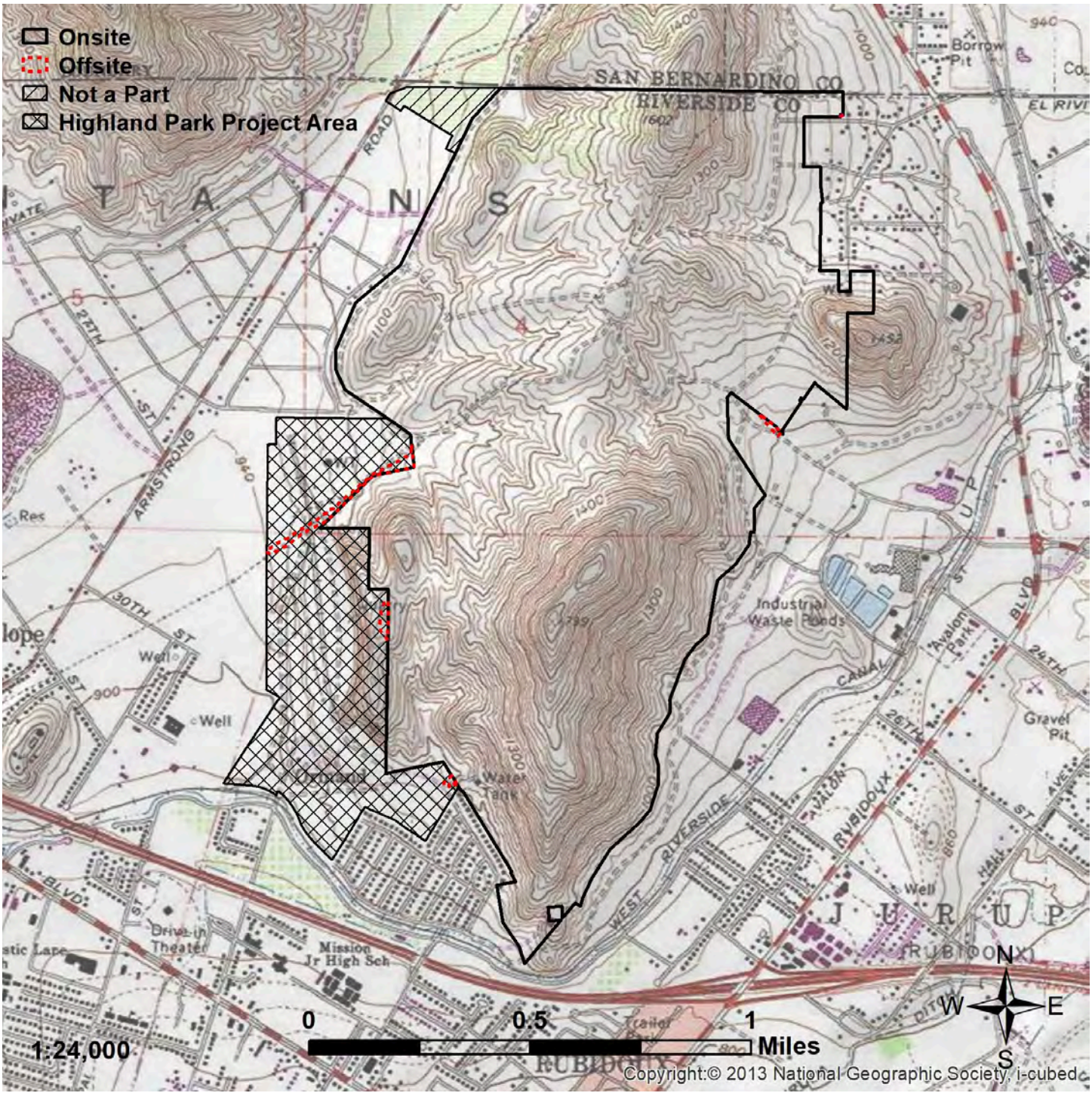
Due to lack of connectivity with the Santa Ana River neither federal waters nor federal wetlands are present within the Rio Vista project.

The client is advised that a Streambed Alteration Agreement (1602) and a Waste Discharge Permit (WDR) will be required prior to any project related earthmoving or vegetation disturbing activities on the Project.



Rio Vista Project
Riverside County, California

Vicinity Map
Figure 1



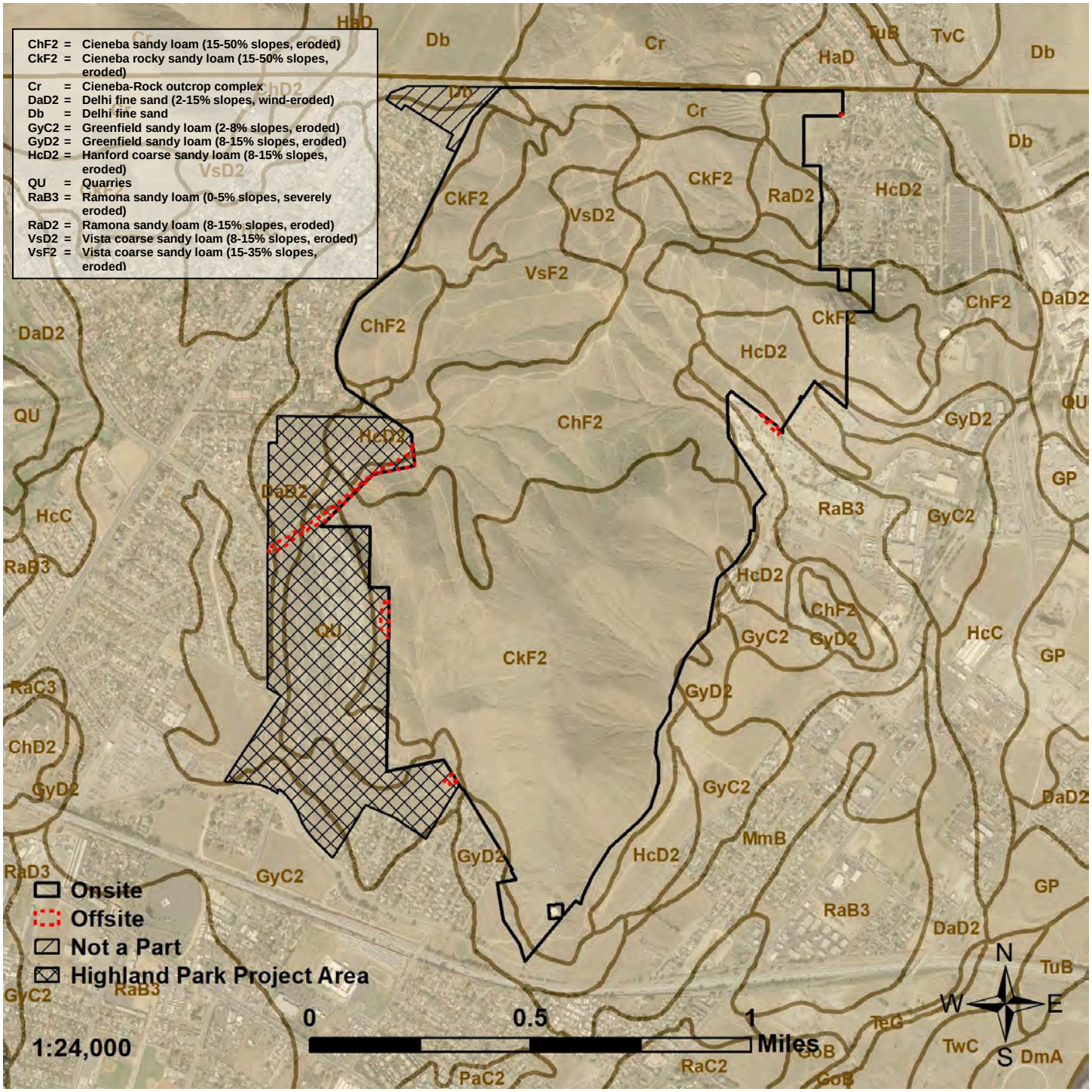
Rio Vista Project
Riverside County, California

Project Location
Figure 2



Rio Vista Project
Riverside County, California

Project Location
Figure 3



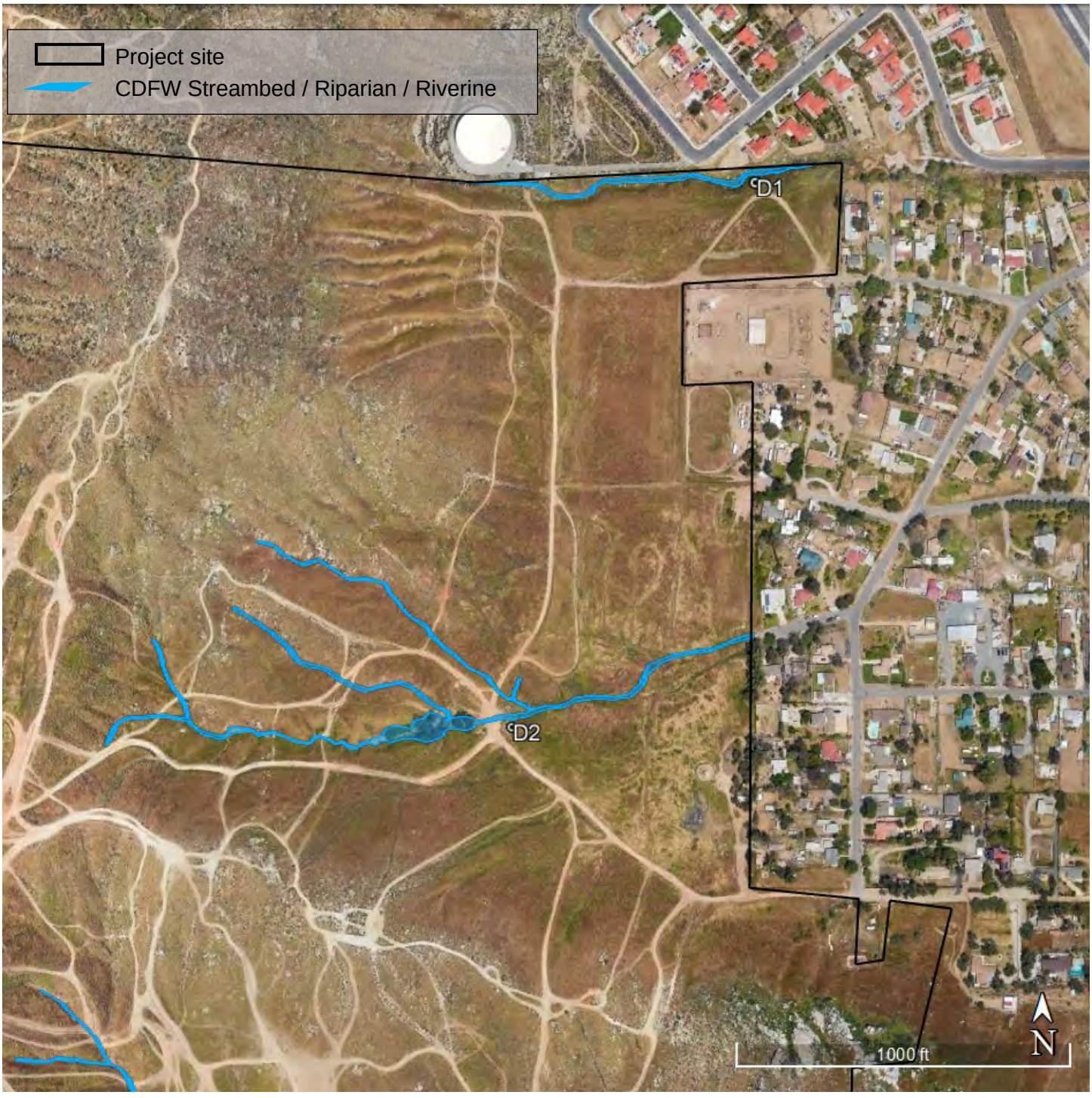
Rio Vista Project
Riverside County, California

Soils Map
Figure 4



Rio Vista Project
Riverside County, California

CDFW/ MSHCP Riparian Riverine Habitat
Figure 5



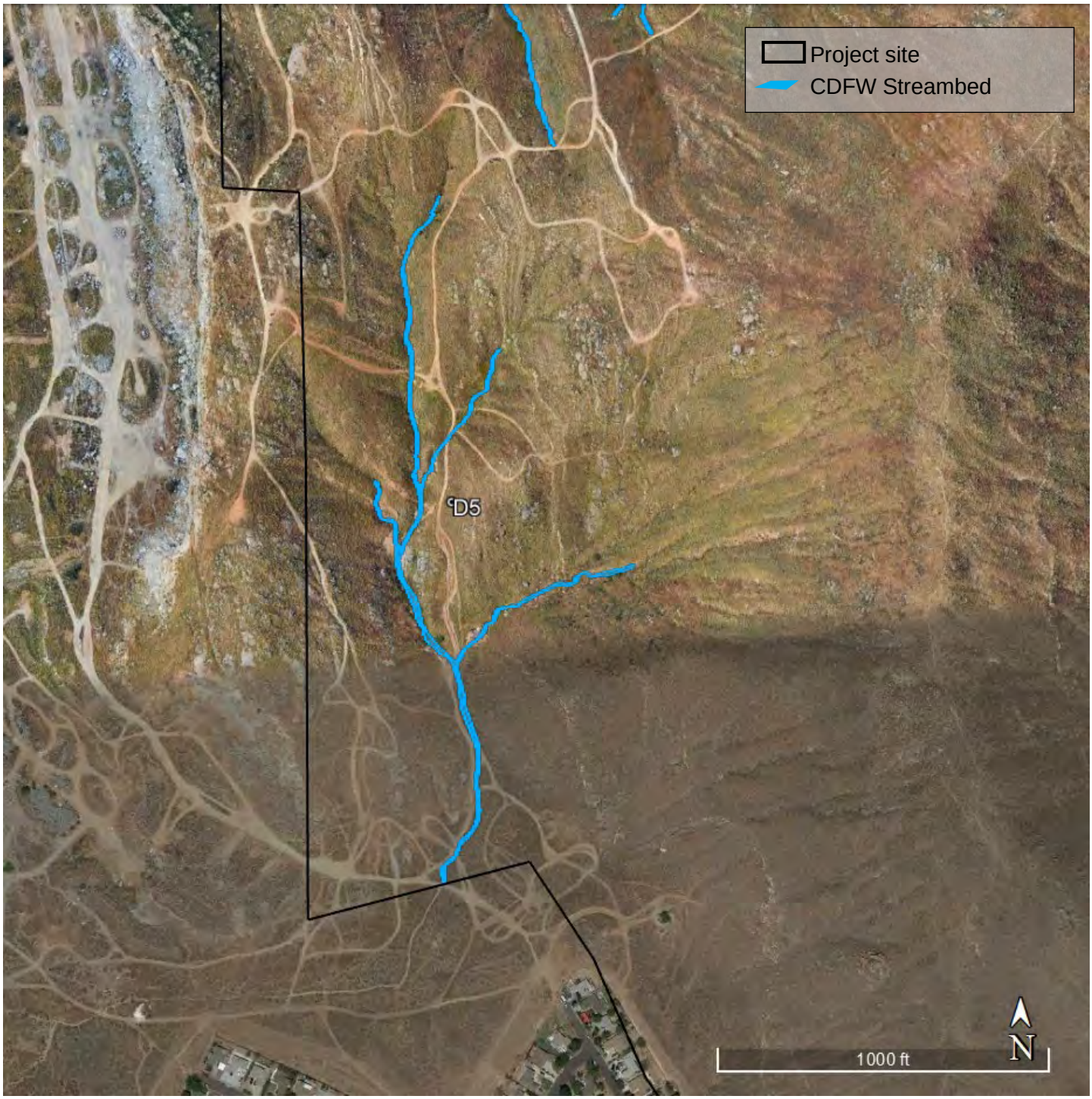
Rio Vista Project
Riverside County, California

Drainage 1 & 2
Figure 6



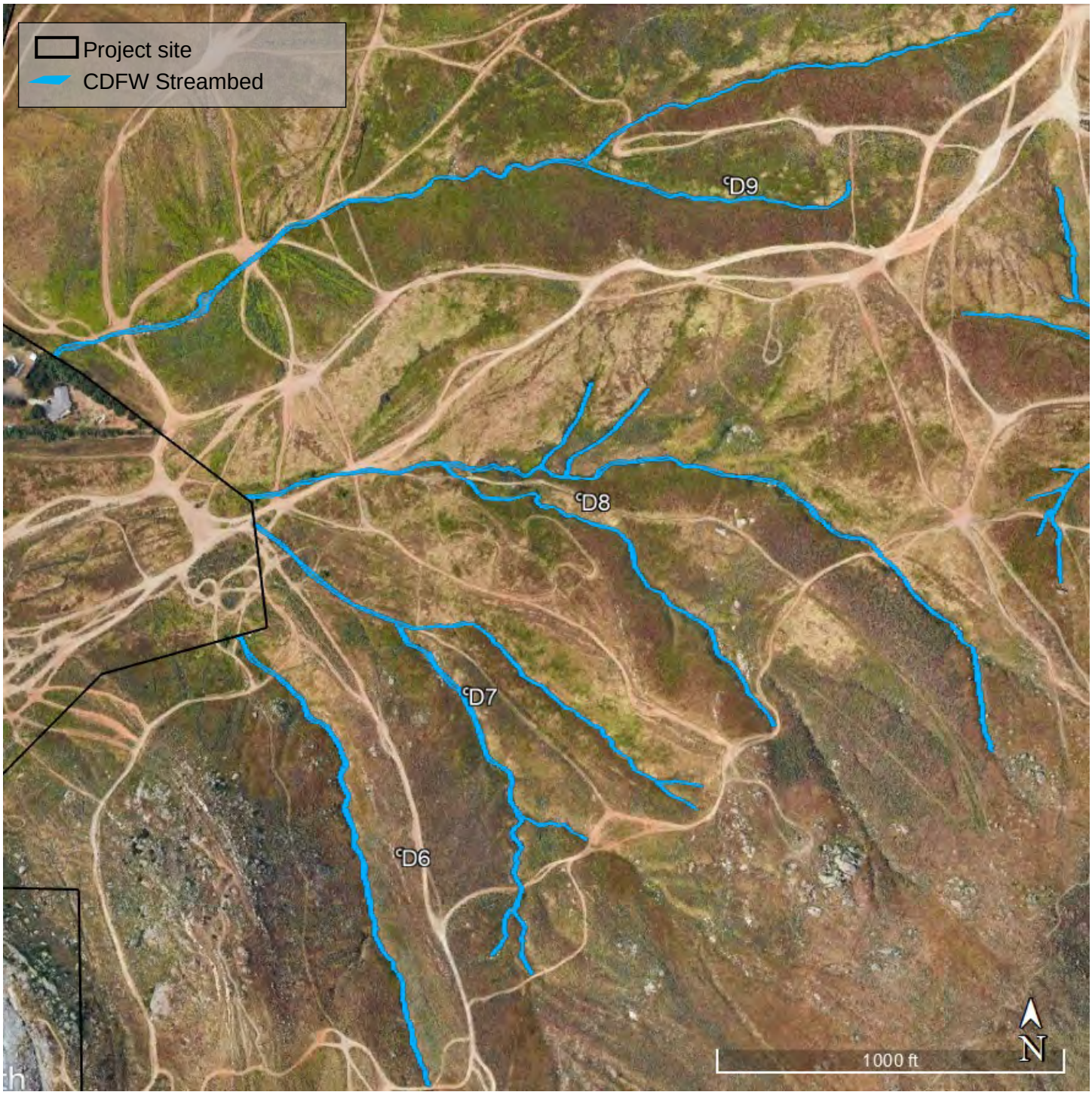
Rio Vista Project
Riverside County, California

Drainages 3, 4 & 12
Figure 7



Rio Vista Project
Riverside County, California

Drainage 5
Figure 8



Rio Vista Project
Riverside County, California

Drainage 6, 7, 8, & 9
Figure 9



Rio Vista Project
Riverside County, California

Drainage 10
Figure 10



Rio Vista Project
Riverside County, California

Drainage 11
Figure 11



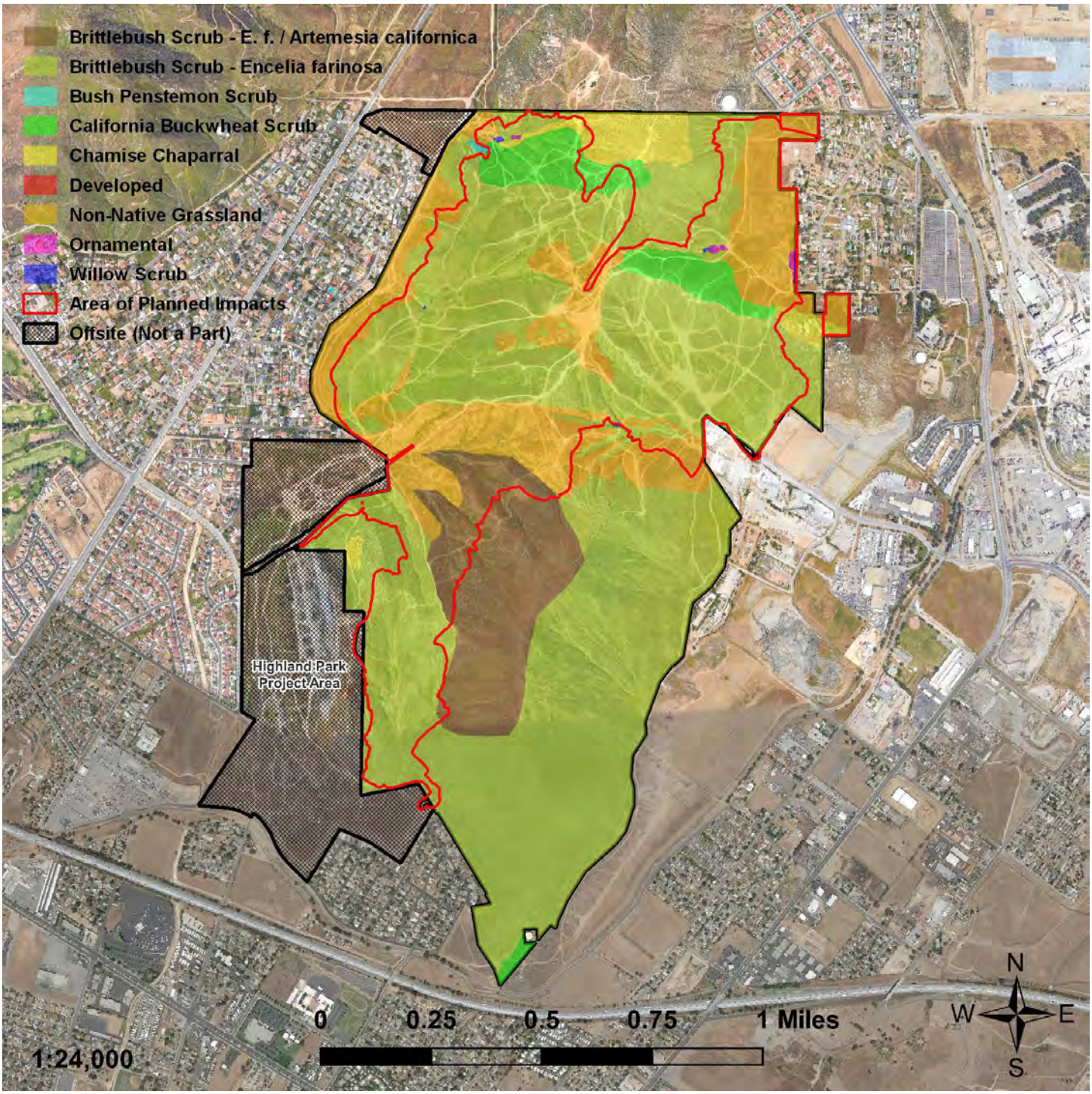
Rio Vista Project
Riverside County, California

RWQCB State Waters
Figure 12



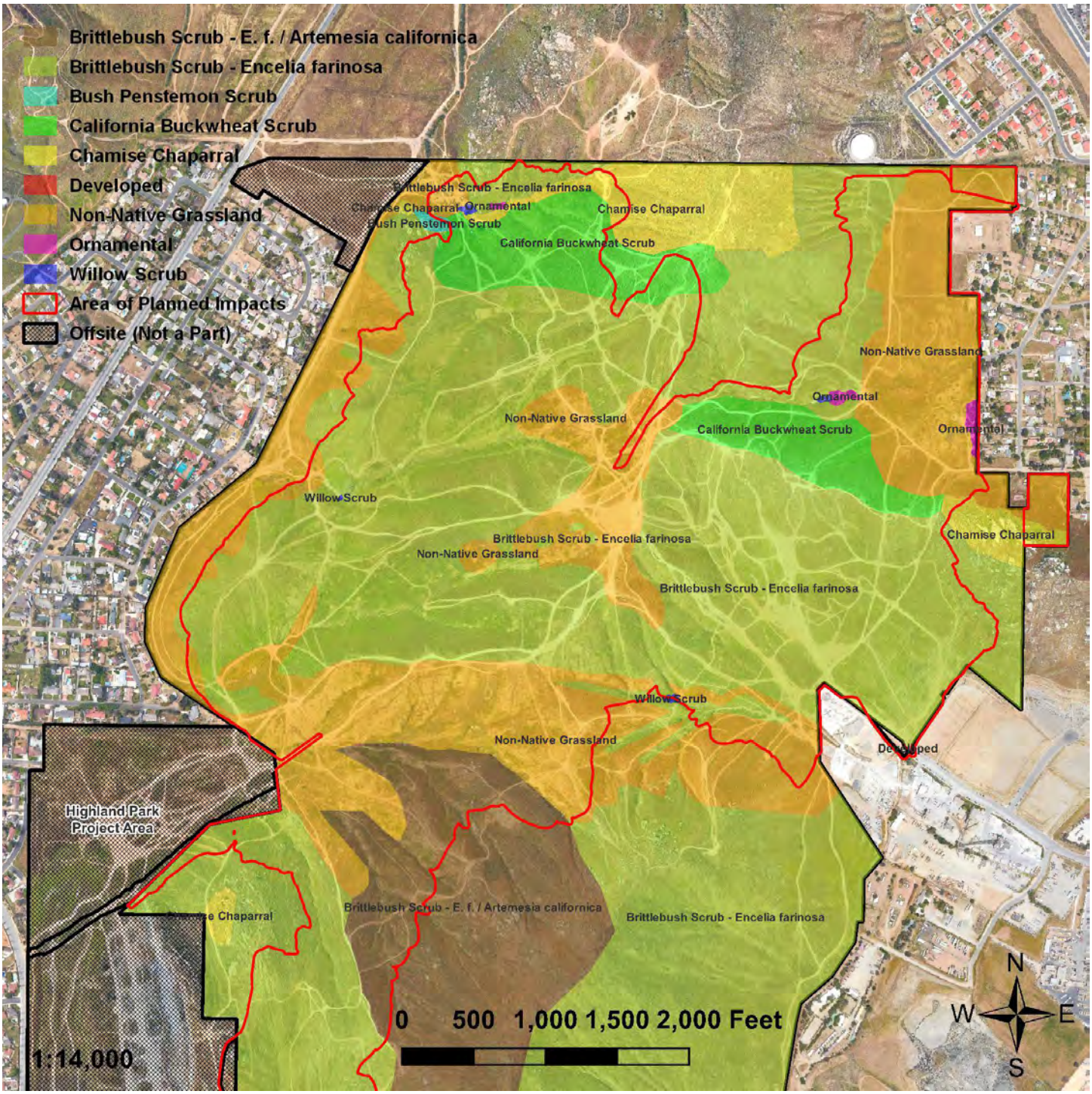
Rio Vista Project
Riverside County, California

Drainage Impacts
Figure 13



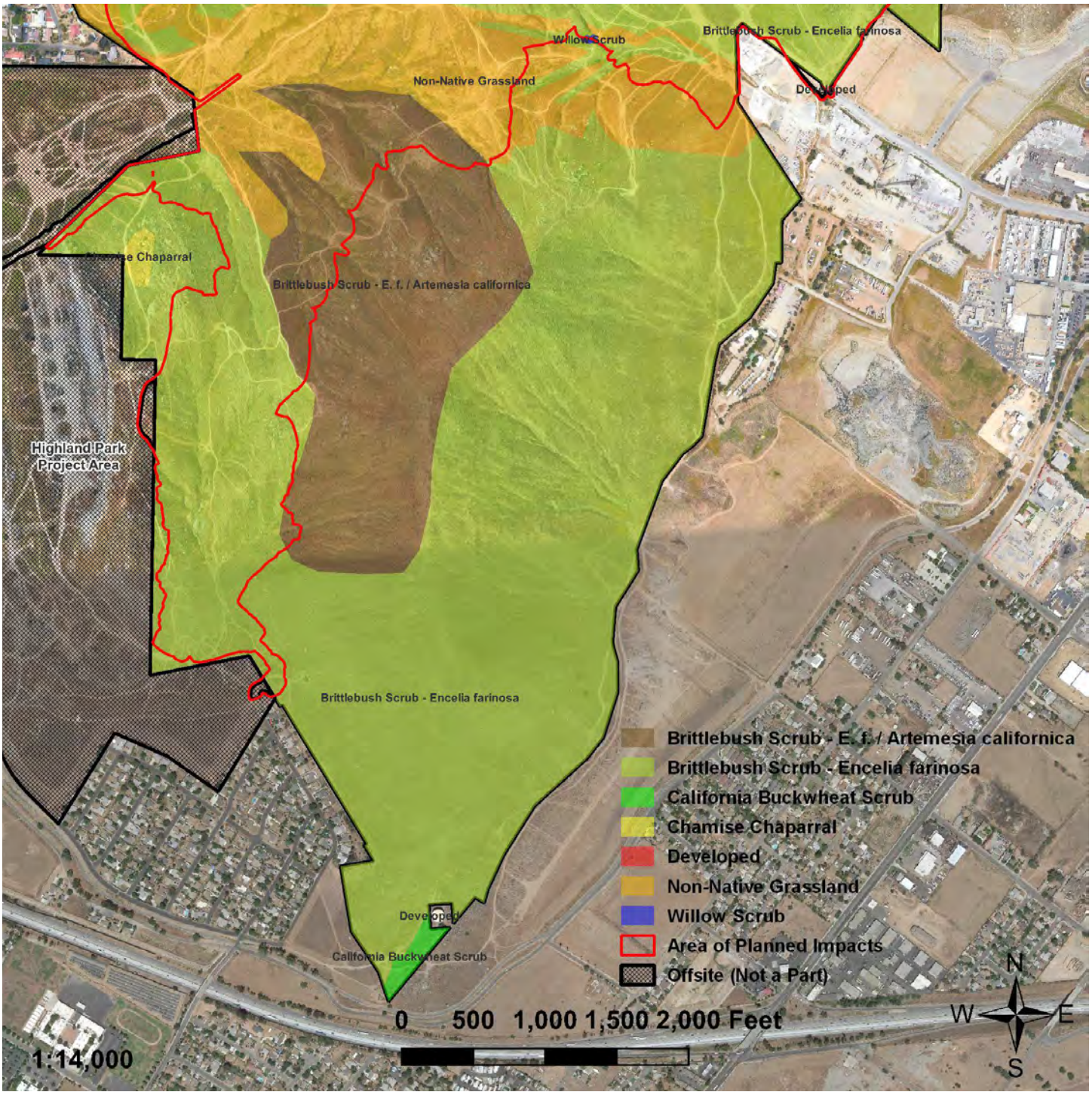
Rio Vista Project
Riverside County, California

Vegetation Map
Figure 14



Rio Vista Project
Riverside County, California

Northern Half Vegetation
Figure 14a



Rio Vista Project
Riverside County, California

Southern Half Vegetation
Figure 14b

7.0) REFERENCES

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Climatic Data

Climate (weather.gov)

Monthly Total Precipitation for POMONA/FAIRPLEX, CA

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2000	M	M	M	M	M	0.00	0.00	0.00	0.00	0.50	0.00	0.00	M
2001	4.33	6.19	0.25	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89
2002	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M	M
2003	0.00	M	3.85	1.30	M	0.00	0.00	0.00	0.00	0.10	1.01	2.20	M
2004	1.10	2.36	1.20	0.36	0.90	0.00	M	0.00	0.00	8.26	1.76	10.27	M
2005	8.68	11.71	M	1.17	0.04	0.00	0.00	0.00	0.00	1.90	0.00	1.32	M
2006	1.07	3.75	4.67	4.56	0.50	0.00	0.00	0.00	M	M	M	0.63	M
2007	0.55	2.19	0.08	0.98	0.03	0.00	0.01	0.00	0.00	0.00	1.14	1.41	6.39
2008	5.52	1.61	0.00	0.00	0.14	0.00	0.00	0.00	0.00	M	9.28	3.59	M
2009	0.33	5.34	0.14	0.01	0.00	0.01	0.00	0.00	0.00	0.36	M	2.04	M
2010	M	M	0.04	M	0.03	0.00	0.00	0.00	0.01	1.11	1.31	9.86	M
2011	0.56	0.53	0.06	0.04	0.27	0.05	0.02	0.00	0.03	1.28	0.61	0.32	3.77
2012	0.99	1.00	2.61	0.56	0.06	0.00	0.01	0.10	0.00	0.15	1.11	2.58	9.17
2013	1.01	0.77	M	0.06	M	0.00	0.00	0.00	0.03	0.69	0.73	M	M
2014	M	0.69	0.67	0.59	0.00	0.00	0.01	0.03	0.00	0.00	0.69	3.85	M
2015	0.92	0.51	0.38	0.36	1.01	0.02	0.85	M	1.02	0.81	0.70	1.15	M
2016	2.52	0.49	M	M	M	0.00	0.00	0.00	0.00	0.60	0.67	M	M
2017	M	2.39	0.17	0.07	M	0.00	M	0.04	M	M	M	M	M
2018	M	M	M	M	M	M	M	M	M	M	M	M	M
2019	M	M	M	M	M	M	M	M	M	M	M	M	M
2020	M	M	M	M	M	M	M	M	M	M	M	M	M
2021	M	M	M	M	M	M	M	M	M	M	M	M	M
2022	M	M	M	M	M	M	M	M	M	M	M	M	M
Mean	1.98	2.64	1.01	0.75	0.23	0.00	0.06	0.01	0.07	1.05	1.27	2.80	7.81
Max	8.68 2005	11.71 2005	4.67 2006	4.56 2006	1.01 2015	0.05 2011	0.85 2015	0.10 2012	1.02 2015	8.26 2004	9.28 2008	10.27 2004	11.89 2001
Min	0.00 2003	0.00 2002	0.00 2008	0.00 2008	0.00 2014	0.00 2017	0.00 2016	0.00 2016	0.00 2016	0.00 2014	0.00 2005	0.00 2001	3.77 2011

Site Photographs



Drainage 1.



Drainage 1.



Drainage 2.



Drainage 2.



Drainage 2a (July 6, 2015).



Drainage 2a1 (July 6, 2015).



Drainage 2.



Drainage 2



Drainage 3.



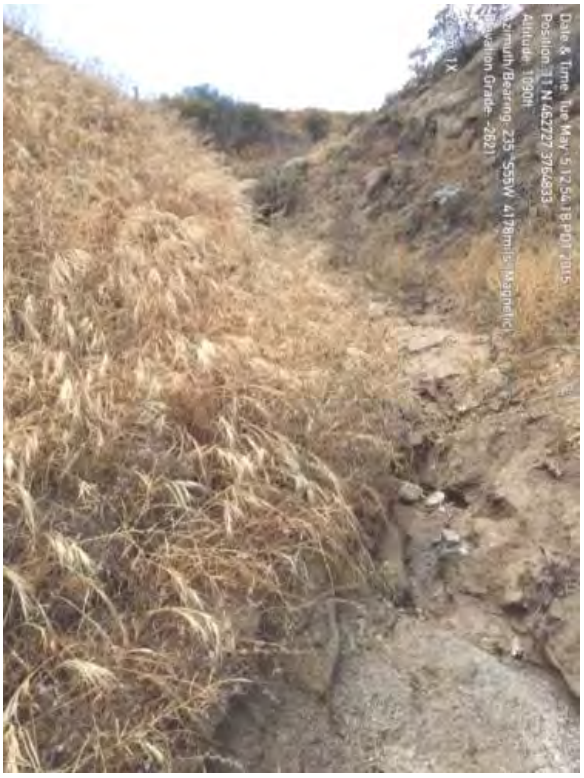
Drainage 3a.



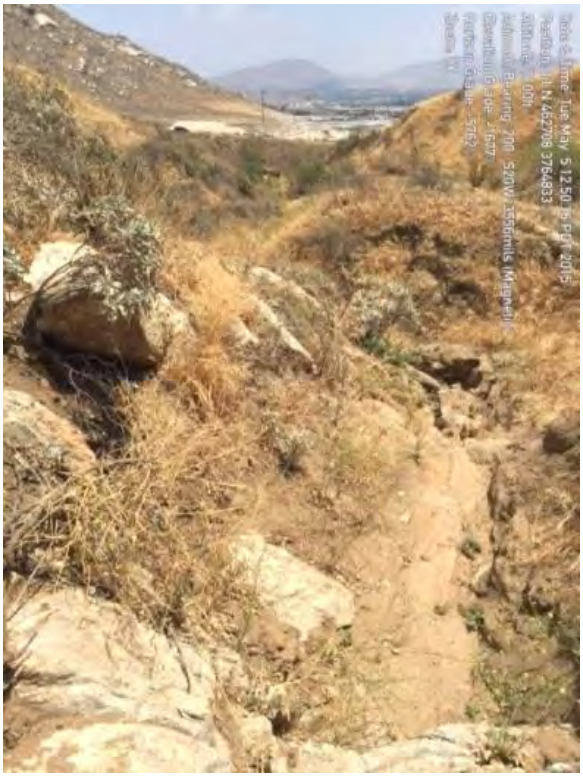
Drainage 4.



Drainage 4.



Drainage 4



Drainage 4



Drainage 4.



Drainage 4.



Drainage 5



Drainage 5



Drainage 6



Drainage 6.



Drainage 7



Drainage 7



Drainage 8



Drainage 8.



Drainage 8.



Drainage 8



Drainage 9



Drainage 9



Drainage 10.



Drainage 10



Drainage 10b.



Drainage 11.



Drainage 11.



Drainage 11.



Drainage 11



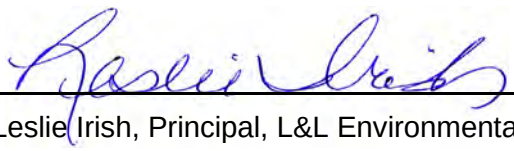
Drainage 11

APPENDIX B

Riverside County Documentation

Certification

Certification: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: September 21, 2022 SIGNED: 

Leslie Irish, Principal, L&L Environmental, Inc.
909-335-9897

1) Fieldwork Performed By:

Leslie Irish
Name

2) Fieldwork Performed By:

Ann Lopez
Name

3) Fieldwork Performed By:

Name

4) Fieldwork Performed By:

Name

5) Fieldwork Performed By:

Name

6) Fieldwork Performed By:

Name

Check here _____ if adding any additional names / signatures below or on other side of page.

BIOLOGICAL REPORT SUMMARY SHEET

Applicant Name: Richland Real Estate Fund, LLC
Assessor's Parcel Number(s): 175-080-010, 175-090-001 through -005, 175-100-003, -005, & -006, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008
Section, Township and Range: Sections 3, 4, 9, & 10, Township 2 South, Range 5 West
Building and Safety Log Number:
Case Number: Lot/Parcel EA Number

MARK ITEM(S) SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE of CONCERN	*(Mark Yes, No, or N/A regarding species findings on the referenced site)*		
		Yes	**No**	**n/a**
	Arroyo Southwestern Toad	Yes	No	n/a
X	Blueline Stream(s)	Yes	No	n/a
	Burrowing Owl	Yes	No	n/a
	Coachella Valley Fringed-toed Lizard	Yes	No	n/a
	Coastal California Gnatcatcher	Yes	No	n/a
	Coastal Sage Scrub	Yes	No	n/a
	Delhi Sands Flower-loving Fly	Yes	No	n/a
	Desert Pupfish	Yes	No	n/a
	Desert Slender Salamander	Yes	No	n/a
	Desert Tortoise	Yes	No	n/a
	Flat-tailed Horned Lizard	Yes	No	n/a
	Least Bell's Vireo	Yes	No	n/a
	Oak Woodlands	Yes	No	n/a
	Quino Checkerspot Butterfly	Yes	No	n/a
	Riverside Fairy Shrimp	Yes	No	n/a
	Santa Ana River Woolystar	Yes	No	n/a
	San Bernardino Kangaroo Rat	Yes	No	n/a
	Slender-horned Spineflower	Yes	No	n/a
	Stephens' Kangaroo Rat	Yes	No	n/a
X	Vernal Pools	Yes	No	n/a
X	Wetlands (State wetlands only present)	Yes	No	n/a

MARK ITEM(S) SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE of CONCERN	*(Mark Yes, No, or N/A regarding species findings on the referenced site)*		
	Other	Yes	No	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a
	Other	Yes	No	n/a

Species of concern shall be any unique, rare, endangered, or threatened species. It shall include species used to delineate wetlands and riparian corridors. It shall also include any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened, or candidate species by either state, or federal regulations, or for Riverside County as listed by the California Department of Fish and Game Natural Diversity Data Base (CNDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report or habitat assessment.

L & L Environmental, Inc. **September 21, 2022**
Signature and Company Name Date

10(a) Permit Number (if applicable) Permit Expiration Date

County Use Only

Received By:_____ Date:_____
PD-B# _____

Attachment E-4

LEVEL OF SIGNIFICANCE CHECKLIST
For Biological Resources
(Submit two copies to the County)

Case Number: _____ Lot/Parcel No. _____ EA Number _____

Assessor's Parcel Number(s): 175-080-010, 175-090-001 through -005, 175-100-003, -005, & -006, 175-160-001, -005, & -007, 177-030-012 & -014, 177-040-002, & -008
Date: September 21, 2022

Biological Resources: (Check the level of impact that applies to the following questions.)

Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact

a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan?

☐ ■ ☐ ☐

b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?

☐ ■ ☐ ☐

c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game, or U. S. Wildlife Service?

☐ ■ ☐ ☐

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?

☐ ☐ ■ ☐

LEVEL OF SIGNIFICANCE CHECKLIST
For Biological Resources
(Submit two copies to the County)

e) Have a substantial adverse effect on any riparian habitat, or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game, or the U. S. Fish and Wildlife Service?

☐ ■ ☐ ☐

f) Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pools, coastal, etc.) through direct removal, filling, hydrological interruption)

☐ ☐ ☐ ■

g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

☐ ☐ ☐ ■

Findings of Fact:

Proposed Mitigation:

Mitigation will be conducted on or offsite at no-net-loss according to a functions and values assessment.

Monitoring Recommended:

Monitoring is recommended when working in or adjacent to sensitive resources and jurisdictional Drainages.

Source: CGP Fig. VI.36-VI.40
Revised October 1999

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D.3 - Hydrogeologic Investigation

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix D is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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D.4 - Biological Review of Palmer's Oak

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix D is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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D.5 - Vibration Prediction Study

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix D is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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Qtative Development Solutions
100 Spectrum Center Drive, Suite 1400
Irvine, CA 92618

5/3/2023

EPD Solutions, Inc.
3333 Michelson Dr, Ste 500
Irvine, CA 92612

Attention: Yerin Bang

Rio Vista Grading and ESA Preservation

Dear Yerin,

Qtative has been asked to evaluate the proposed grading and blasting plan for the Rio Vista project, particularly around an environmentally sensitive site at the northeast portion of the Rio Vista site. Qtative and its blasting contractor with over 40 years of experience completed the attached grading and blasting analysis using an assumption of blast strength of 2 inches per second (ips).Additional assumptions include an explosive charge weight of 150 lbs(which is greater than the anticipated charge weight needed for this project) and the distance from the edge of the grading limits to the environmentally sensitive area being 259 lineal feet. The following is the explanation of the findings.

The project is proposing to potentially blast 125,000 cubic yards in AC1 (see attached grading exhibit). Based on the locations of grading and blasting, the analysis shows that the distances of those activities from the environmentally sensitive site would not cause vibration that will impact the environmentally sensitive site identified on the exhibit. Assuming the conservative 150 lbs. charge weight and the distance of 259 lineal feet, blasting will create a a peak partial velocity to 1.21 ips, which is well under the U.S. BLM 8507 standards for safe vibrations of 2 ips.

Any concerns about equipment vibrations from the largest piece of equipment (CAT D10 dozer) at 259 feet would also be well under the BLM 8507 standard for safe vibrations of 2 ips. Therefore, the environmentally sensitive site documented in the attached grading exhibit would not be impacted by vibration damage and/or earthwork operational hazards in the project design's current configuration.

Thank you,

Scott Emery

Scott Emery
Principal
QTative Development Solutions

Average Predicted Vibration (ips)

K factor: 160 Slope: -1.6

Distance Away (ft)	Charge Weight (lb)														
	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
259	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
309	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
359	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
409	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
459	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
509	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
559	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
609	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
659	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
709	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
759	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
809	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
859	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
909	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
959	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1009	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
1059	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
1109	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
1159	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
1209	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
1259	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
1309	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
1359	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
1409	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
1459	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
1509	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
1559	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
1609	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
1659	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1709	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

Appendix E: Cultural Resources and Tribal Cultural Resources Supporting Information

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E.1 - Cultural Resources Assessment

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix E is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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E.2 - Tribal Cultural Resources Identification Report

This appendix contains sensitive information relating to cultural resources and is not intended for public distribution pursuant to Public Resources Code Section 21082.3(C)(2). A copy of confidential Appendix E is on file with the City of Jurupa Valley and is available to qualified professionals upon request.

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